NACOmatic

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GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the National Aeronautical Charting Office, FAA, Department of Transportation, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: http://nfdc.faa.gov/portal/airportchanges.do

FAA, Aeronautical Information Services, ATO-R, Rm. 626

800 Independence Ave., SW

Washington, DC 20591

Telephone 1-866-295-8236 Fax 202-267-5322

Email 9-ATOR-HO-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

	Airport Information	Airspace Information*
Effective Date	Cut-off date	Cut-off date
22 Oct 09	9 Sep 09	20 Aug 09
17 Dec 09	4 Nov 09	15 Oct 09
11 Feb 10	30 Dec 09	10 Dec 09
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10

^{*}Including changes to preferred routes and graphic depictions on charts.

FOR CHARTING ERRORS CONTACT:

ı

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SSMC-4 Sta. #2335

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Silver Spring, MD 20910-3281

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Frequently asked questions (FAQs) are answered on our web site at www.naco.faa.gov. See the FAQs prior to contact via toll free number.

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Email 9-AMC-Chartsales@faa.gov

Telephone 1-800-638-8972

Fax 301-436-6829

or any authorized FAA Chart Agent

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

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ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example-"req" may mean "request", "requesting", "requested", or "requests").

AAF	Army Air Field	byd	beyond
AB	Airbase	С	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control	CGAS	Coast Guard Air Station
	Center	CIV	Civil
acft	aircraft	clsd	closed
ADCC	Air Defense Control Center	comd	command
AER	approach end rwy	CONUS	Continental United States
AFB	Air Force Base	CSTMS	Customs
AFHP	Air Force Heliport	ctc	contact
afld	airfield	ctl	control
AFOD	US Army Flight Operations Detachment	dalgt	daylight
AFRC	Armed Forces Reserve Center/Air Force	Dec	December
	Reserve Command	DIAP	DoD Instrument Approach Procedure
AFSS	Automated Flight Service Station	DoD	Department of Defense
AG	Agriculture	DSN	Defense Switching Network (Telephone)
A-GEAR	Arresting Gear	dsplcd	displaced
AGL	above ground level	durn	duration
AHP	Army heliport	eff	effective
ALS	Approach Light System	emerg	emergency
alt	altitude	EOR	End of Runway
AMC	Air Mobility Command	ETA	Estimated Time of Arrival
ANGS	Air National Guard Station	ETD	Estimated Time of Departure
apch	approach	exc	except
Apr	April	extd	extend
APU	Auxiliary Power Unit	FBO	fixed-base operator
ARB	Air Reserve Base	Feb	February
arpt	airport	fld	field
ARS	Air Reserve Station	FLIP	Flight Information Publication
AS	Air Station	flt	flight
ASDE-X	Airport Surface Detection Equipment—	flw	follow
	Model X	Fri	Friday
ASU	Aircraft Starting Unit	FSS	Flight Service Station
ATC	Air Traffic Control	GA	glide angle
Aug	August	GCA	Ground Controlled Approach
AUW	All Up Weight (gross weight)	GS	glide slope
avbl	available	haz	hazard
bcn	beacon	HQ	Headquarters
blo	below		

CONTINUED ON NEXT PAGE

personnel and equipment working

CONTINUED FROM PRECEDING PAGE

onr

PAFW

hr hour non precision instrument ΙΔΡ Instrument Approach Procedure NS ABTMT Noise Abatement ICAC International Civil Aviation Organization NSTD nonstandard IFR Instrument Flight Rules ntc notice ILS Instrument Landing System obsn observation IM Inner Marker Oct October IMG Immigration OI F Outlying Field operate, operator, operational

indet indefinite ons operations intensity OTS out of service ints

invof in the vicinity of ovrn overrun

Instrument Meteorological Conditions

incr

IMC

MACC

NAAS

increase

lan nat pattern Jet Aircraft Starting Unit IASI p-line power line

JOAP Joint Oil Analysis Program **PMSV** Pilot-to-Metro Service IOSAC Joint Operational Support Airlift Center PΩI Petrol, Oils and Lubricants IRB Joint Reserve Base PPR prior permission required Jul July PRM Precision Runway Monitoring

Jun June PTD Pilot to Dispatcher

Κt Knots RAMCC Regional Air Movement Control Center

LAA Local Airport Advisory rea request LAHSO Land and Hold Short Operations rgt tfc right traffic RON Remain Overnight lhs nounds ldg landing rar require lighted rstd lgtd restricted

RSRS løts lights reduced same runway separation

LMM Compass locator at Middle Marker ILS rw/v/ runway LOC Localizer Sat Saturday

LOM Compass locator at Outer Marker ILS SFLE Strategic Expeditionary Landing Field

SFA

tran

transient

limited Sen Itd September

Military Area Control Center Single Frequency Approach March efe Mar surface

SFRA MCAF Marine Corps Air Facility Special Flight Rules Area

SOAP MCALE Marine Corps Auxiliary Landing Field Spectrometric Oil Analysis Program

SOF Supervisor of Flying MCAS Marine Corps Air Station

Marine Corps Base SPR MCB Seaplane Base SP med medium sunrise SS METRO Pilot-to-Metro voice call sunset Mil military std standard

min minute Sur Sunday MLS Microwave Landing System SVC service MM Middle Marker of ILS tfc traffic Mon Monday thld threshold MP Maintenance Period Thu Thursday MSI mean sea level tkf take-off MSAW minimum safe altitude warning tmnrv temporary

Naval Auxiliary Air Station

NADC Naval Air Development Center Tue Tuesday NADER Naval Air Depot twr tower Naval Air Engineering Center NAEC twv taxiway NAFS Naval Air Engineering Station UC Under Construction NAF

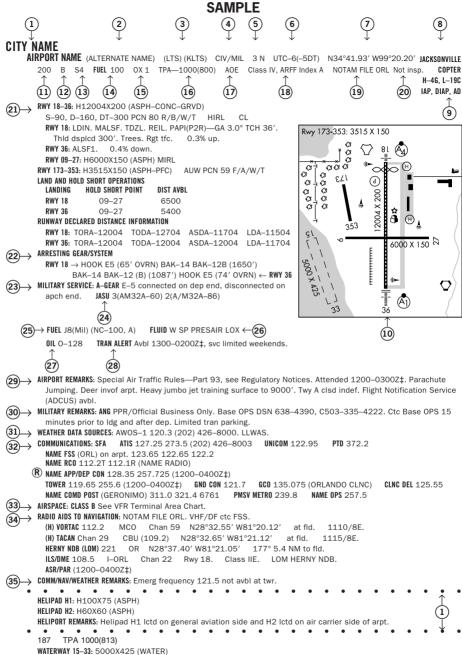
Naval Air Facility USA United States Army Naval Air Logistics Control Office NALCO USAF United States Air Force USCG NALO Navy Air Logistics Office United States Coast Guard NALE Naval Auxiliary Landing Field USN United States Navy

NAS Naval Air Station Defense Switching Network (telephone,

NAWC Naval Air Warfare Center formerly AUTOVON) NAWS Naval Air Weapons Station VFR Visual Flight Rules VIP night Very Important Person ngt

NOLF Naval Outlying Field VMC Visual Meteorological Conditions

Nov November Wed Wednesday wx weather



SEAPLANE REMARKS: Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of arpt not visible from twr and are required to ctc twr.

All bearings and radials are magnetic unless otherwise specified.
All mileages are nautical unless otherwise noted.
All times are Coordinated Universal Time (UTC) except as noted.
All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10 SKETC	H LEGEND
runways/landing areas	radio aids to navigation
Hard Surfaced	VORTAC
Metal Surface	VOR/DME NDB
Sod, Gravel, etc	TACAN NDB/DME
Light Plane,	MISCELLANEOUS AERONAUTICAL FEATURES
Closed	Airport Beacon
Helicopter Landings Area	Landing Tee ⊢
Displaced Threshold 0	Tetrahedron
Taxiway, Apron and Stopways	ADDDOACH HOHTING CVCTFAAC
MISCELLANEOUS BASE AND CULTURAL FEATURES	APPROACH LIGHTING SYSTEMS A dot " • " portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting
Buildings	system e.g. (A) Negative symbology, e.g., (A) V indicates Pilot Controlled Lighting (PCL).
Power Lines	Runway Centerline Lighting
Fence	A Approach Lighting System ALSF-2
Towers	Approach Lighting System ALSF-1
Tanks	SALS/SALSF
Oil Well	Medium Intensity Approach Lighting System (MALS and MALSF)/(SSALS
Smoke Stack	Medium Intensity Approach Lighting System (MALSR) and RAII
0bstruction	System (MALSR) and RAIL
Controlling Obstruction	D Navy Parallel Row and Cross Bar
ପି ଉ,ସି ଉ, Trees	† Air Force Overrun
Populated Places	Standard Threshold Clearance provided Pulsating Visual Approach Slope Indicator (PVASI)
Cuts and Fills Cut	Visual Approach Slope Indicator with a threshold crossing height to accomodate long bodied or jumbo aircraft
Cliffs and Depressions	Tri-color Visual Approach Slope Indicator (TRCV)
Ditch	(APAP)
Hill	P Precision Approach Path Indicator (PAPI)

LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navaids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases, Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

1 CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

(2) ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

(3) LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

(4) OPERATING AGENCY

Α

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

MC

Marine Corps

AFRC Air Force Reserve Command N Navv US Air Force Naval Air Facility ΔF NAF ANG Air National Guard NAS Naval Air Station AR US Army Reserve NASA National Air and Space Administration Р ARNG US Army National Guard

ARNG US Army National Guard P US Civil Airport Wherein Permit Covers
CG US Coast Guard Use by Transient Military Aircraft
CIV/MIL Joint Use Civil/Military PVT Private Use Only (Closed to the Public)

DND Department of National Defense Canada

US Army

(5) AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

(6) TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

7 GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

8 CHARTS

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER.

9 INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5–4–5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

(10) AIRPORT SKETCH

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

(11) ELEVATION

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

(12) ROTATING LIGHT BEACON

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

S8: Minor powerplant repairs.

(13) SERVICING—CIVIL

S1:	Minor airframe repairs.	S5:	Major airframe repairs.
S2:	Minor airframe and minor powerplant repairs.	S6:	Minor airframe and major powerplant repairs.
S3:	Major airframe and minor powerplant repairs.	S7:	Major powerplant repairs.

S4: Major airframe and major powerplant repairs.

(14) FUEL

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP**
100	Grade 100 gasoline (Green)		minus 50° C.
100LL	100LL gasoline (low lead) (Blue)	J4 (JP4)	(JP-4 military specification) FP** minus
115	Grade 115 gasoline (115/145 military		58° C.
	specification) (Purple)	J5 (JP5)	(JP-5 military specification) Kerosene with
A	Jet A, Kerosene, without FS-II*, FP** minus		FS-11, FP** minus 46°C.
	40° C.	J8 (JP8)	(JP-8 military specification) Jet A-1, Kerosene
A+	Jet A, Kerosene, with FS-II*, FP** minus		with FS-II*, FP** minus 47°C.
	40°C.	J8+100	(JP-8 military specification) Jet A-1, Kerosene
A1	Jet A-1, Kerosene, without FS-II*, FP**		with FS-II*, FP** minus 47°C, with-fuel
	minus 47°C.		additive package that improves thermo
A1+	Jet A-1, Kerosene with FS-II*, FP** minus		stability characteristics of JP-8.
	47° C.	J	(Jet Fuel Type Unknown)
В	Jet B, Wide-cut, turbine fuel without FS-II*,	MOGAS	Automobile gasoline which is to be used
	FP** minus 50° C.		as aircraft fuel.

^{*(}Fuel System Icing Inhibitor)

NOTE: Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS",

however, the grade/type and other octane rating will not be published. $% \label{eq:control_problem} % % \label{eq:control_problem} % \label{eq:control_problem} % % \label{eq:control$

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

15 OXYGEN—CIVIL

OX 1 High Pressure OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure OX 4 Low Pressure—Replacement Bottles

(16) TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

^{**(}Freeze Point)

17

7 airport of entry. Landing rights, and customs user fee airports

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)	407-975-1740
Southeast Sector (Atlantic States—DC, WV, VA to FL)	407-975-1780
Central Sector (Interior of the US, including Gulf states—MS, AL, LA)	407-975-1760
Southwest East Sector (OK and eastern TX)	407-975-1840
Southwest West Sector (Western TX, NM and AZ)	407-975-1820
Pacific Sector (WA, OR, CA, HI and AK)	407-975-1800

(18) CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	Х			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	Х	Х		Х
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	Х	Х	Х	

14 CFR-PART 139 CERTIFICATED AIRPORTS

INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
А	1	<90′	≥1	500#DC or HALON 1211 or 450#DC + 100 gal H ₂ O
В	1 or 2	≥90′, <126′	≥5	Index A + 1500 gal H ₂ O
		≥126′, <159′	<5	
С	2 or 3	≥126′, <159′	≥5	Index A + 3000 gal H ₂ O
		≥159′, <200′	<5	
D	3	≥159′, <200′		Index A + 4000 gal H ₂ O
		>200′	<5	
E	3	≥200′	≥5	Index A + 6000 gal H ₂ O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂O-Water; DC-Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

19 NOTAM SERVICE

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and

ATC Procedures for detailed description of NOTAM's. Current NOTAMs are available from Flight Service Stations at 1–800–WX–BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS) www.notams.jcs.mil.

20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as STOL, Ultralight, or assault strips. Assault strips are shown by magnetic bearing.

RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking,	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	landing mats, membranes	(TURF)—Turf
(DIRT)—Dirt	(PEM)—Part concrete, part asphalt	(TRTD)—Treated
(GRVD)—Grooved	(PFC)—Porous friction courses	(WC)—Wire combed

RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	2S	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757,
		KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type
		landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body
		gear type landing gear (A340–600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double
		tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing
		gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination
		landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available or all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
 - R Rigid
 - F Flexible
- (3) The pavement subgrade category:
 - A High
 - B Medium
 - C Low
 - D Ultra-low

- $\begin{tabular}{ll} (4) The maximum tire pressure authorized for the pavement: \\ \end{tabular}$
 - W High, no limit
 - X Medium, limited to 217 psi
 - Y Low, limited to 145 psi
- Z Very low, limited to 73 psi(5) Pavement evaluation method:
 - T Technical evaluation
 - U By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL-Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS-Omni Directional Approach Lighting System.

AF OVRN-Air Force Overrun 1000' Standard

Approach Lighting System.

LDIN-Lead-In Lighting System.

MALS-Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF-Sequenced Flashing Lights.

OLS-Optical Landing System.

WAVE-OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

VISUAL GLIDESLOPE INDICATORS

APAP—A sys	stem of panels, which may or may not be lighted, used fo	or alignme	ent of approach path.
PNIL	APAP on left side of runway	PNIR	APAP on right side of runway
PAPI—Precis	sion Approach Path Indicator		
P2L	2-identical light units placed on left side of	P4L	4-identical light units placed on left side of
	runway		runway
P2R	2-identical light units placed on right side of	P4R	4-identical light units placed on right side of
	runway		runway
PVASI—Puls	sating/steady burning visual approach slope indicator, no	ormally a	single light unit projecting two colors.
PSIL	PVASI on left side of runway	PSIR	PVASI on right side of runway
SAVASI-Sii	mplified Abbreviated Visual Approach Slope Indicator		
S2L	2-box SAVASI on left side of runway	S2R	2-box SAVASI on right side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

TRIL	TRCV on left side of runway	TRIR	TRCV on right side of runway
VASI—Visua	l Approach Slope Indicator		
V2L	2-box VASI on left side of runway	V6L	6-box VASI on left side of runway
V2R	2-box VASI on right side of runway	V6R	6-box VASI on right side of runway
V4L	4-box VASI on left side of runway	V12	12-box VASI on both sides of runway
V4R	4-box VASI on right side of runway	V16	16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

Key Mike	Function
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available
	(Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up, RWY 21: Pole. Rgt ffc. 0.4% down.

RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold–short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided. LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

22 ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a–gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A–Gear which has a bi–direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A–Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

BI-DIRECTIONAL CABLE (B)

12

<u>TYPE</u> <u>DESCRIPTION</u>

BAK-9 Rotary friction brake.

BAK-12A Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary

friction brake.

BAK-12B Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary

friction brake.

E28 Rotary Hydraulic (Water Brake).
M21 Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14 A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to five seconds to fully raise the cable.)

H A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to one and one-half seconds to fully raise the cable.)

UNI-DIRECTIONAL CABLE

TYPE DESCRIPTION

MB60 Textile brake—an emergency one-time use, modular braking system employing the tearing of

specially woven textile straps to absorb the kinetic energy.

E5/E5-1/E5-3 Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100

HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under

Military Service.

FOREIGN CABLE

TYPE DESCRIPTION US EQUIVALENT

44B–3H Rotary Hydraulic) (Water Brake)

CHAG Chain E-5

UNI-DIRECTIONAL BARRIER

TYPE DESCRIPTION

MA-1A Web barrier between stanchions attached to a chain energy absorber.

BAK-15 Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction,

chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK–15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

TYPE DESCRIPTION

EMAS Engineered Material Arresting System, located beyond the departure end of the runway, consisting of

high energy absorbing materials which will crush under the weight of an aircraft.

23 MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

24 JET AIRCRAFT STARTING UNITS (JASU)

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35–1–7.)

ELECTRICAL STARTING UNITS:

A/M32A-86 AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire

DC: 28v, 1500 amp, 72 kw (with TR pack)

MC-1A AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire

DC: 28v, 500 amp, 14 kw

MD-3 AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 1500 amp, 45 kw, split bus

MD-3A AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 1500 amp, 45 kw, split bus

MD-3M AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 500 amp, 15 kw

AC: 120/208y, 400 cycle, 3 phase, 62.5 kya, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120y, MD-4 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5

kva. 0.8 pf. 520 amp. 2 wire

AIR STARTING UNITS

ΔM32-95 150 + -5 lb/min (2055 + -68 cfm) at 51 + -2 psiaAM32A-95 150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- 2 psig)

LASS 150 +/- 5 lb/min @ 49 +/- 2 psia

MA-1A 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press

MC-1 15 cfm, 3500 psia MC-1A 15 cfm, 3500 psia MC-2A 15 cfm, 200 psia

MC-11 8,000 cu in cap, 4000 psig, 15 cfm

COMBINED AIR AND ELECTRICAL STARTING UNITS:

AGPU AC: 115/200v, 400 cycle, 3 phase, 30 kw gen

DC: 28v, 700 amp

AIR: 60 lb/min @ 40 psig @ sea level

AM32A-60* AIR: 120 + - 4 lb/min (1644 + - 55 cfm) at 49 + - 2 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva

DC: 28v, 500 amp, 15 kw

AIR: 150 + -5 lb/min (2055 + -68) cfm at 51 + -9 psia ΔM324-604 AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v. 200 amp. 5.6 kw

AM32A-60B* AIR: 130 lb/min, 50 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v, 200 amp, 5.6 kw

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.

USN IASU

FLECTRICAL STARTING UNITS:

NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v;

AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz. NC-10A/A1/B/C DC: 750 amp constant, 1000 amp intermittent, 28v:

AC: 90 kva, 115/200v, 3 phase, 400 Hz.

AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi. MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia.

WELLS AIR START 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

SYSTEM

COMBINED AIR AND ELECTRICAL STARTING UNITS:

NCPP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC,

30 kva.

JASU (ARMY)

28v, 7.5 kw, 280 amp. 59R2-1R

ELECTRICAL STARTING UNITS (DND):

CF12 AC 115/200v, 140 kva, 400 Hz, 3 phase CF13 AC 115/200v, 60 kva, 400 Hz, 3 phase

CE14 AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp CF15 DC 22-35v, 500 amp continuous 1100 amp intermittent CF16 DC 22-35v, 500 amp continuous 1100 amp intermittent soft start

AIR STARTING UNITS (DND):

ASA 45.5 psig, 116.4 lb/min COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp CEA1

AIR 112.5 lb/min, 47 psig

ELECTRICAL STARTING UNITS (OTHER)

C-26 28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire

C-26-B, C-26-C 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire

DC 28v/10kw

AIR STARTING UNITS (OTHER):

40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B) Α4

MA-1 150 Air HP, 115 lb/min 50 psia MA-2 250 Air HP, 150 lb/min 75 psia

CARTRIDGE:

MXU-4A USAF



Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports button.

See legend item 14 for fuel code and description.

26 SUPPORTING FLUIDS AND SYSTEMS—MILITARY

ADI

Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.

W Water Thrust Augmentation—Jet Aircraft.

WAI Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.

SP Single Point Refueling.

PRESAIR Air Compressors rated 3,000 PSI or more.

De-Ice Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

OXYGEN:

LPOX Low pressure oxygen servicing.
HPOX High pressure oxygen servicing.
LHOX Low and high pressure oxygen servicing.

LOX Liquid oxygen servicing.

OXRB Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be

replenished only by replacement of cylinders.)

OX Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB Low and high pressure oxygen servicing and replacement bottles;

LPOXRB Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

NITROGEN:

LPNIT — Low pressure nitrogen servicing.

HPNIT — High pressure nitrogen servicing.

LHNIT — Low and high pressure nitrogen servicing.

GRADE TYPE

27 OIL—MILITARY

US AVIATION OILS (MIL SPECS):

CODE	GRADE, TIPE
0-113	1065, Reciprocating Engine Oil (MIL-L-6082)
0-117	1100, Reciprocating Engine Oil (MIL-L-6082)
0-117+	1100, 0-117 plus cyclohexanone (MIL-L-6082)
0-123	1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)
0-128	1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
0-132	1005, Jet Engine Oil (MIL-L-6081)
0-133	1010, Jet Engine Oil (MIL–L–6081)
0-147	None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
0-148	None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
0-149	None, Aircraft Turbine Engine Synthetic, 7.5c St
0-155	None, MIL-L-6086C, Aircraft, Medium Grade
0-156	None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engine

0–156 None, MIL–L–23699 (Synthetic Base), Turboprop and Turboshaft Engines

JOAP/SOAP Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request.

(JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service

supported program.)

28 TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

29 AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional Information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircraws and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11–204, AR 95–27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on aboard are designated Code 6 or higher as explained in AFJMAN 11–213, AR 95–11, OPNAVINST 3722–8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

31) WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS-Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2-reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.



Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1–800–WX–BRIEF (1–800–992–7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies-Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122–126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remoted facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol (R) indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON-Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol (R) indicates radar departure control.

CLNC DEL-Clearance Delivery.

PRE TAXI CLNC-Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or

hours of operation as "Wx obsn svc 1900–0000Z‡" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW-Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

33 AIRSPACE

 $Information\ concerning\ Class\ B,\ C,\ and\ part-time\ D\ and\ E\ surface\ area\ airspace\ shall\ be\ published\ with\ effective\ times.$

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS E:

0

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS G, with CLASS E 700' (or 1200') AGL & abv:

0

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

AI

AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

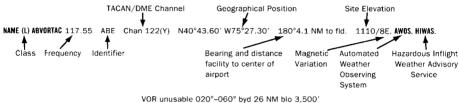
Class E 700′ AGL (shown as magenta vignette on sectional charts) and 1200′ AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700′/1200′ AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)



The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical Charting Office Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDs.

NAVAID information is tabulated as indicated in the following sample:



Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on VORTAC and VOR/DME).

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance information

HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's and will be implemented throughout the conterminous U.S.

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. Terminal Procedures. Only part-time hours of operation will be shown.

RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

SSV Class	Altitudes	Distance
		(NM)
(T) Terminal	1000' to 12,000'	25
(L) Low Altitude	1000' to 18,000'	40
(H) High Altitude	1000' to 14,500'	40
	14,500' to 18,000'	100
	18,000' to 45,000'	130
	45.000' to 60.000'	100

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility.

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The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

*	
AB	Automatic Weather Broadcast.
DF	Direction Finding Service.
DME	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y)	UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
GS	Glide slope.
Н	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB	Non-directional radio beacons providing automatic transcribed weather service.
ILS	Instrument Landing System (voice, where available, on localizer channel).
IM	Inner marker.
ISMLS	Interim Standard Microwave Landing System.
LDA	Localizer Directional Aid.
LMM	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS	Microwave Landing System.
MM	Middle marker.
OM	Outer marker.
S	Simultaneous range homing signal and/or voice.
SABH	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF	Simplified Direction Facility.
TACAN	UHF navigational facility-omnidirectional course and distance information.
VOR	VHF navigational facility-omnidirectional course only.
VOR/DME	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC	Collocated VOR and TACAN navigational facilities.
W	Without voice on radio facility frequency.
Z	VHF station location marker at a LF radio facility.

ILS FACILITY PEFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A-4 NM prior to runway threshold, B-3500 ft prior to runway threshold, C-glide angle dependent but generally 750–1000 ft prior to threshold, T-runway threshold, D-3000 ft after runway threshold, and E-2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:



FREQUENCY PAIRING PLAN AND MLS CHANNELING

	I REGULATI I ARRING I LAN AND MES GIARMELING								
MLS	VHF	TACAN	MLS	VHF	TACAN	MLS	VHF	TACAN	
CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	
500	108.10	18X	568	109.45	31Y	636	114.15	88Y	
502	108.30	20X	570	109.55	32Y	638	114.25	89Y	
504	108.50	22X	572	109.65	33Y	640	114.35	90Y	
506	108.70	24X	574	109.75	34Y	642	114.45	91Y	
508	108.90	26X	576	109.85	35Y	644	114.55	92Y	
510	109.10	28X	578	109.95	36Y	646	114.65	93Y	
512	109.30	30X	580	110.05	37Y	648	114.75	94Y	
514	109.50	32X	582	110.15	38Y	650	114.85	95Y	
516	109.70	34X	584	110.25	39Y	652	114.95	96Y	
518	109.90	36X	586	110.35	40Y	654	115.05	97Y	
520	110.10	38X	588	110.45	41Y	656	115.15	98Y	
522	110.30	40X	590	110.55	42Y	658	115.25	99Y	
524	110.50	42X	592	110.65	43Y	660	115.35	100Y	
526	110.70	44X	594	110.75	44Y	662	115.45	101Y	
528	110.90	46X	596	110.85	45Y	664	115.55	102Y	
530	111.10	48X	598	110.95	46Y	666	115.65	103Y	
532	111.30	50X	600	111.05	47Y	668	115.75	104Y	
534	111.50	52X	602	111.15	48Y	670	115.85	105Y	
536	111.70	54X	604	111.25	49Y	672	115.95	106Y	
538	111.90	56X	606	111.35	50Y	674	116.05	107Y	
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y	
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y	
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y	
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y	
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y	
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y	
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y	
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y	
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y	
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y	
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y	
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y	
564	109.25	29Y	632	113.95	86Y				
566	109.35	30Y	634	114.05	87Y				

FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

30Y	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel
31X						-			
32X 109.50 514 64Y 133.75 - 97X 115.00 - 654 33X 109.60 - 66Y 133.80 - 98X 115.10 - 654 33X 109.60 - 66Y 133.95 - 98X 115.10 - 656 33X 109.60 - 66Y 133.95 - 98X 115.10 - 656 34X 109.70 516 66Y 133.95 - 99X 115.20 - 658 34X 109.75 574 67X 134.00 - 99Y 115.25 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 660 36X 109.90 518 68Y 134.10 - 100Y 115.26 660 36X 109.90 518 68Y 134.10 - 100Y 115.30 - 662 37X 110.00 - 69Y 134.25 - 100X 115.50 - 662 37X 110.00 - 69Y 134.25 - 100X 115.50 - 663 38X 109.80 - 70Y 112.35 - 100X 115.50 - 664 38X 110.10 520 70Y 112.35 - 100X 115.50 - 664 38X 110.10 520 70Y 112.35 - 100X 115.50 - 664 38X 110.10 520 70Y 112.35 - 100X 115.50 - 664 39X 110.25 584 72X 112.50 - 100X 115.70 668 40X 110.30 522 72Y 112.55 - 100X 115.70 668 40X 110.30 522 72Y 112.55 - 100X 115.80 666 40X 110.30 522 72Y 112.55 - 100X 115.80 666 40X 110.30 522 72Y 112.55 - 100X 115.80 670 41X 110.45 588 74X 112.60 - 109X 115.85 670 41X 110.65 590 75X 112.80 - 109X 115.85 670 41X 110.65 590 75X 112.80 - 109X 115.80 670 41X 110.50 524 74Y 112.75 - 100X 115.95 672 42Y 110.55 590 75X 112.80 - 100X 115.95 672 42Y 110.55 590 75X 112.80 - 100X 115.95 672 44Y 110.50 524 77X 112.95 - 100X 115.95 672 44Y 110.50 524 76X 112.80 - 100Y 116.05 674 44X 110.70 526 76X 112.80 - 100Y 116.55 684 46X 110.90 528 78X 113.90 - 110Y 116.05 674 44X 110.70 526 76Y 112.95 - 100X 116.05 674 44X 110.70 536 80Y 113.35 620 113X 116.00 - 100Y 116.55 684 46X 110.90 528 78X 113.10 - 110Y 116.55 684 46X 110.90 528 78X 113.10 - 110Y 116.55 684 47X 111.00 - 586 76Y 112.95 - 100Y 116.55 684 48X 111.00 - 588 78X 113.10 - 110Y 116.55 684 48X 111.00 - 588 78X 113.10 - 110Y 116.55 684 48X 111.00 - 588 78X 113.30 - 110Y 116.55 684 48X 111.00 - 588 78X 113.50 - 110X 116.50 - 58X 116.10 - 58X 117.7						-			-
32Y	31Y	109.45	568	64X	133.70	-	96Y	114.95	652
33X 109.60 - 66Y 133.85 - 98X 115.10 - 33Y 109.65 572 66X 133.90 - 98Y 115.15 656 34X 109.70 516 66Y 133.95 - 99X 115.20 - 34Y 109.75 574 67X 134.00 - 99Y 115.25 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 35Y 109.85 576 68X 134.10 - 100Y 115.35 660 36X 109.90 518 68Y 134.15 - 101X 115.40 - 36Y 109.95 578 68X 134.20 - 101Y 115.45 662 37X 110.00 - 69Y 134.25 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102X 115.50 - 38Y 10.15 582 71X 112.40 - 103X 115.60 - 38Y 10.15 582 71X 112.40 - 103X 115.60 - 38Y 110.15 582 71X 112.40 - 103X 115.60 - 39Y 110.25 584 72X 112.50 - 104X 115.70 668 40X 110.30 522 72Y 112.55 - 104X 115.70 668 40X 110.30 522 72Y 112.55 - 104X 115.80 670 110.35 588 73X 112.60 - 105X 115.80 670 110.41 110.45 588 74X 112.75 - 106X 115.80 670 110.41 110.45 588 74X 112.75 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 674 110.55 590 75Y 112.85 - 106X 115.55 678 110.65 592 76X 112.80 - 106Y 116.55 678 110.65 598 78Y 113.15 - 110Y 116.65 68 110Y 116.55 684 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 689 110.75 689 11	32X	109.50	514	64Y	133.75	-	97X	115.00	-
38X 109.65 572 66K 133.90 - 98Y 115.5 656 34X 109.70 516 66Y 133.95 - 99X 115.20 - 34Y 109.75 574 67X 134.00 - 99Y 115.25 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 35Y 109.85 576 68K 134.10 - 100Y 115.35 660 36X 109.90 518 68X 134.10 - 100Y 115.35 660 36X 109.90 518 68X 134.20 - 101Y 115.45 662 37X 110.00 - 69Y 134.25 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102Y 115.55 664 38K 110.10 520 70Y 112.35 - 103X 115.60 - 38K 110.10 520 70Y 112.35 - 103X 115.65 664 38K 110.10 520 70Y 112.35 - 103X 115.65 664 39X 110.20 71Y 112.45 - 104X 115.70 668 40X 110.30 522 72Y 112.55 - 106X 115.80 - 40X 110.30 522 72Y 112.55 - 106X 115.80 - 41X 110.40 - 73Y 112.60 - 106Y 115.75 668 41X 110.40 - 73Y 112.65 - 106X 115.90 - 41X 110.45 588 74X 112.70 - 106Y 115.75 672 42X 110.50 524 74Y 112.75 - 107X 116.00 - 42X 110.50 592 76X 112.80 - 107Y 116.05 674 43X 110.60 - 75Y 112.85 - 106X 115.90 - 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.00 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 678 44X 110.80 - 77Y 113.05 - 110X 116.00 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 678 45Y 110.85 596 78X 113.10 - 110Y 116.55 680 46X 110.90 528 78Y 113.15 - 111X 116.40 - 682 47Y 111.05 500 80Y 113.95 622 114X 116.70 - 688 50X 111.30 532 88Y 113.50 - 114Y 116.75 688 50X 111.30 532 88Y 113.50 - 114Y 116.75 688 50X 111.30 532 88Y 113.55 622 114X 116.70 - 694 53X 111.60 - 88Y 113.85 632 119X 117.10 - 565 50Y 111.55 618 88X 113.80 - 117Y 117.05 698 50X 111.30 532 88Y 114.55 642 119X 117.75 698 50X 111.50 534 84Y 113.75 622 114X 117.70 - 1695 50X 111.95 618 88X 113.80 - 117Y 117.05 698 50X 111.85 616 88X 113.80 - 117Y 117.05 698 50X 111.95 618	32Y	109.55	570	65X	133.80	-	97Y	115.05	654
34X 109.70 516 66Y 133.95 - 99X 115.20 - 38X 109.80 - 67Y 134.00 - 99Y 115.25 658 38X 109.85 576 68X 134.10 - 100X 115.30 - 36X 109.95 578 68X 134.15 - 101X 115.40 - 37Y 110.00 - 69Y 134.25 - 102Y 115.55 664 38X 110.10 520 70Y 112.35 - 102Y 115.55 664 38Y 110.15 582 71X 112.40 - 103Y 115.65 666 39X 110.20 - 71Y 112.45 - 104Y 115.75 688 40X 110.30 522 72Y 112.55 - 104Y 115.75 688 40X 110.35 586 73X 112.65	33X	109.60	-	65Y	133.85	-	98X	115.10	-
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SSK	34X	109.70	516	66Y	133.95	-	99X	115.20	-
38Y 109.85 576 68X 134.10 - 100Y 115.35 660 36Y 109.95 578 69X 134.20 - 101Y 115.45 662 37X 110.00 69Y 134.25 - 101Y 115.55 664 38X 110.10 520 70Y 112.35 - 102Y 115.55 664 38X 110.15 582 71X 112.40 - 103Y 115.60 - 39X 110.25 584 72X 112.50 - 104X 115.70 - 40X 110.35 586 73X 112.60 - 105Y 115.80 - 40X 110.35 586 73X 112.60 - 105Y 115.80 - 41X 110.40 - 73Y 112.65 - 106X 115.90 - 41X 110.45 588 74X 112.70 -	34Y	109.75	574	67X	134.00	-	99Y	115.25	658
36X 109.90 518 68Y 134.20 - 101X 115.40 - 36Y 109.95 578 69X 134.20 - 101Y 115.50 - 37Y 110.05 580 70X 112.30 - 102X 115.55 664 38X 110.15 582 71X 112.40 - 103X 115.65 666 39X 110.20 - 71Y 112.45 - 104Y 115.75 668 39X 110.25 584 72X 112.50 - 104Y 115.75 668 40X 110.30 522 72Y 112.55 - 105X 115.80 - 40Y 110.35 586 73X 112.65 - 106X 115.85 67 41X 110.40 - 73Y 112.65 - 106X 115.85 67 42X 110.50 524 74Y 112.	35X	109.80	-	67Y	134.05	-	100X	115.30	-
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37X 110.00 - 69Y 134.25 - 102Y 115.55 664 38X 110.10 520 70Y 112.35 - 103X 115.60 - 38Y 110.15 582 71X 112.40 - 103Y 115.60 - 39X 110.25 584 72X 112.50 - 104X 115.70 - 39Y 110.25 584 72X 112.50 - 104Y 115.75 668 40X 110.30 522 72Y 112.55 - 105X 115.80 - 40Y 110.35 586 73X 112.60 - 105Y 115.85 670 41X 110.40 - 73Y 112.65 - 106X 115.90 - 42X 110.50 524 74X 112.75 - 107X 116.00 - 43X 110.60 - 75Y 112.85 <td>36X</td> <td>109.90</td> <td>518</td> <td>68Y</td> <td>134.15</td> <td>-</td> <td>101X</td> <td>115.40</td> <td>-</td>	36X	109.90	518	68Y	134.15	-	101X	115.40	-
37Y 110.05 580 70X 112.35 - 103X 115.60 - 38Y 110.15 582 71X 112.40 - 103X 115.65 666 39X 110.20 - 71Y 112.45 - 104X 115.75 668 39X 110.25 584 72X 112.50 - 104X 115.75 668 40X 110.35 586 73X 112.60 - 105Y 115.86 - 40Y 110.35 586 73X 112.60 - 105Y 115.86 - 41Y 110.40 - 73Y 112.65 - 106Y 115.95 672 42X 110.55 580 75X 112.75 - 107X 116.00 - 42Y 110.55 590 75X 112.80 - 107Y 116.05 674 43X 110.65 592 76X 112.		109.95	578		134.20	-		115.45	662
38X 110.10 520 70Y 112.35 - 103X 115.65 666 39X 110.25 582 71X 112.40 - 103Y 115.65 666 39X 110.25 584 72X 112.50 - 104X 115.70 - 39Y 110.35 586 73X 112.60 - 105X 115.80 - 40Y 110.35 586 73X 112.60 - 105Y 115.86 670 41X 110.40 - 73Y 112.65 - 106X 115.90 - 42X 110.50 524 74X 112.75 - 107X 116.00 - 42X 110.55 590 75X 112.80 - 107Y 116.00 - 43X 110.65 592 76X 112.95 - 108X 116.10 - 43X 110.65 592 76X 112.95						-			
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39X 110.20 . 71Y 112.45 . 104X 115.75 668 40X 110.30 522 72Y 112.55 . 105X 115.80 . 40Y 110.35 586 73X 112.60 . 105Y 115.85 . 41X 110.40 . 73Y 112.65 . 106Y 115.90 . 41Y 110.45 588 74X 112.75 . 107X 116.00 . 42X 110.55 590 75X 112.80 . 107Y 116.00 . 43X 110.60 . 75Y 112.85 . 108X 116.10 . 43X 110.60 . 75Y 112.85 . 108X 116.10 . 43X 110.60 . 77Y 113.00 . 109Y 116.25 678 44X 110.70 528 78Y 113.00						-			
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42X 110.50 524 74Y 112.75 - 107X 116.00 - 42Y 110.55 590 75X 112.80 - 107Y 116.05 674 43X 110.65 592 76X 112.90 - 108Y 116.15 676 44X 110.75 594 77X 113.00 - 109Y 116.25 678 45X 110.80 - 77Y 113.05 - 110X 116.30 - 45Y 110.85 596 78X 113.10 - 110Y 116.35 680 46X 110.90 528 78Y 113.20 - 111X 116.40 - 47X 111.05 600 80X 113.20 - 1112Y 116.50 - 47X 111.05 600 80X 113.30 - 112Y 116.55 684 48X 111.15 602 81X 1			_			-			
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51Y 111.45 608 84X 113.70 - 116Y 116.95 692 52X 111.50 534 84Y 113.75 628 117X 117.00 - 52Y 111.55 610 85X 113.80 - 117Y 117.05 694 53X 111.60 - 85Y 113.85 630 118X 117.10 - 53Y 111.65 612 86X 113.90 - 118Y 117.15 696 54X 111.70 536 86Y 113.95 632 119X 117.20 - 54Y 111.75 614 87X 114.05 634 120X 117.30 - 55Y 111.80 - 87Y 114.05 634 120X 117.30 - 56X 111.90 538 88Y 114.15 636 121X 117.40 - 56Y 111.95 618 89X						626			
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52Y 111.55 610 85X 113.80 - 117Y 117.05 694 53X 111.60 - 85Y 113.85 630 118X 117.10 - 53Y 111.65 612 86X 113.90 - 118Y 117.15 696 54X 111.70 536 86Y 113.95 632 119X 117.20 - 54Y 111.75 614 87X 114.00 - 119Y 117.25 698 55X 111.80 - 87Y 114.05 634 120X 117.30 - 55Y 111.85 616 88X 114.10 - 120Y 117.35 - 56X 111.90 538 88Y 114.10 - 120Y 117.35 - 56Y 111.95 618 89X 114.20 - 121Y 117.40 - 57Y 112.00 - 89Y 114.						628			-
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57Y 112.05 - 90X 114.30 - 122Y 117.55 - 58X 112.10 - 90Y 114.35 640 123X 117.60 - 58Y 112.15 - 91X 114.40 - 123Y 117.65 - 59X 112.20 - 91Y 114.45 642 124X 117.70 - 59Y 112.25 - 92X 114.50 - 124Y 117.75 - 60X 133.30 - 92Y 114.55 644 125X 117.80 - 60Y 133.35 - 93X 114.60 - 125Y 117.85 - 61X 133.40 - 93Y 114.65 646 126X 117.90 - 62X 133.50 - 94Y 114.75 648	56Y	111.95	618	89X	114.20	-	121Y	117.45	-
58X 112.10 - 90Y 114.35 640 123X 117.60 - 58Y 112.15 - 91X 114.40 - 123Y 117.65 - 59X 112.20 - 91Y 114.45 642 124X 117.70 - 59Y 112.25 - 92X 114.50 - 124Y 117.75 - 60X 133.30 - 92Y 114.55 644 125X 117.80 - 60Y 133.35 - 93X 114.60 - 125Y 117.85 - 61X 133.40 - 93Y 114.65 646 126X 117.90 - 61Y 133.45 - 94X 114.75 648 126Y 117.95 - 62X 133.50 - 94Y 114.75 648 126Y 117.95 -	57X	112.00	-	89Y	114.25	638	122X	117.50	-
58Y 112.15 - 91X 114.40 - 123Y 117.65 - 59X 112.20 - 91Y 114.45 642 124X 117.70 - 59Y 112.25 - 92X 114.50 - 124Y 117.75 - 60X 133.30 - 92Y 114.55 644 125X 117.80 - 60Y 133.35 - 93X 114.60 - 125Y 117.85 - 61X 133.40 - 93Y 114.65 646 126X 117.90 - 61Y 133.45 - 94X 114.70 - 126Y 117.95 - 62X 133.50 - 94Y 114.75 648	57Y	112.05	-	90X	114.30	-	122Y	117.55	-
59X 112.20 - 91Y 114.45 642 124X 117.70 - 59Y 112.25 - 92X 114.50 - 124Y 117.75 - 60X 133.30 - 92Y 114.55 644 125X 117.80 - 60Y 133.35 - 93X 114.60 - 125Y 117.85 - 61X 133.40 - 93Y 114.65 646 126X 117.90 - 61Y 133.45 - 94X 114.70 - 126Y 117.95 - 62X 133.50 - 94Y 114.75 648 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	58X		-		114.35	640	123X		-
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60X 133.30 - 92Y 114.55 644 125X 117.80 - 60Y 133.35 - 93X 114.60 - 125Y 117.85 - 61X 133.40 - 93Y 114.65 646 126X 117.90 - 61Y 133.45 - 94X 114.70 - 126Y 117.95 - 62X 133.50 - 94Y 114.75 648	59X	112.20	-	91Y	114.45	642	124X	117.70	-
60Y 133.35 - 93X 114.60 - 125Y 117.85 - 61X 133.40 - 93Y 114.65 646 126X 117.90 - 61Y 133.45 - 94X 114.70 - 126Y 117.95 - 62X 133.50 - 94Y 114.75 648	59Y	112.25	-	92X	114.50	-	124Y	117.75	-
61X 133.40 - 93Y 114.65 646 126X 117.90 - 61Y 133.45 - 94X 114.70 - 126Y 117.95 - 62X 133.50 - 94Y 114.75 648	60X	133.30	-	92Y	114.55	644	125X	117.80	-
61Y 133.45 - 94X 114.70 - 126Y 117.95 - 62X 133.50 - 94Y 114.75 648	60Y	133.35	-	93X	114.60	-	125Y	117.85	-
62X 133.50 - 94Y 114.75 648	61X	133.40	-		114.65	646	126X	117.90	-
	61Y	133.45	-	94X	114.70	-	126Y	117.95	-
62Y 133.55 - 95X 114.80 -			-			648			
	62Y	133.55	-	95X	114.80	-			

35 COMM/NAV/WEATHER REMARKS:

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

ADDINGTON FLD (See ELIZABETHTOWN)

AIRBE N36°44.22′ W87°24.83′ NOTAM FILE HOP. NDB (HW/LOM) 273 FK 225° 5.4 NM to Campbell AAF. ST LOUIS L-161

ASHLAND RGNL (DWU) 6 NW UTC-5(-4DT) N38°33.27′ W82°44.28′ 546 B S2 FUEL 100LL, JET A1+ NOTAM FILE LOU

CINCINNATI H-10G, L-26H ΙΔΡ

RWY 10: REIL, PAPI(P2L)-GA 4.0°TCH 53', Tree.

RWY 28: REIL, PAPI(P2L)—GA 4.0°TCH 61', Trees.

AIRPORT REMARKS: Attended Apr-Oct 1300-01007+ Nov-Mar 1300-2300Z‡. For arpt svc call toll free 877-359-2745. ACTIVATE MIRL Rwy 10-28, REIL Rwy 10 and Rwy 28, PAPI Rwy 10 and Rwy 28—CTAF, Ldg fee waived with fuel purchase, Ldg

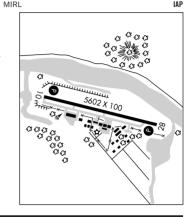
RWY 10-28: H5602X100 (ASPH) S-51, D-65, ST-82, DT-105

WEATHER DATA SOURCES: AWOS-3 132.425 (606)836-2682. COMMUNICATIONS: CTAF/UNICOM 122 8

(R) HUNTINGTON APP/DEP CON 128.4 CLNC DEL 121.7 AIRSPACE: TRSA svc ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

YORK (L) VORTAC 112.8 YRK Chan 75 N38°38.65' W82°58.70′ 120° 12.5 NM to fld. 1040/05W.



BARDSTOWN

SAMUELS FLD (BRY) 2 W UTC-5(-4DT) N37°48.86′ W85°29.98′

669 B S2 FUEL 100LL, JET A NOTAM FILE LOU RWY 02-20: H5003X75 (ASPH) S-18 MIRL 0.7% up N

RWY 02: REIL. PAPI (P4L)-GA 3.5°TCH 37'. Trees.

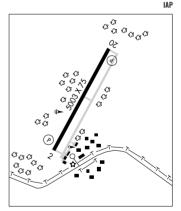
RWY 20: REIL. PAPI (P4L)-GA 3.0° TCH 28'. Trees.

AIRPORT REMARKS: Attended 1400-2300Z‡. Extensive glider activity on weekends. ACTIVATE MIRL Rwy 02-20, REIL Rwys 02 and

WEATHER DATA SOURCES: AWOS-3 119.925 (502)348-1867. COMMUNICATIONS: CTAF/UNICOM 122.8

R LOUISVILLE APP/DEP CON 132.075(E) 123.675(W) RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

NEW HOPE (L) VOR/DME 110.8 EWO Chan 45 N37°37.91' W85°40.55' 036° 13.8 NM to fld. 960/01E.



BARKLEY RGNL (See PADUCAH)

BEAVER CREEK N37°01.05′ W86°00.55′ NOTAM FILE LOU. NDB (MHW) 260 BVQ 074° 2.9 NM to Glasgow Muni.

ST LOUIS L-16J

ST LOUIS

H-5E, 10F, L-26F

BIG SANDY RGNL (See PRESTONBURG)

BLAYD N37°59.22′ W84°39.63′ NOTAM FILE LEX.

CINCINNATI L-26G, 27E

NDB (MHW/LOM) 242 LE 045° 3.9 NM to Blue Grass.

BLUE GRASS (See LEXINGTON)

0 0 0

BOWLING GREEN N36°55.73′ W86°26.61′ NOTAM FILE BWG. STIIOLITS (H) VORTACW 117.9 BWG Chan 126 026° 2.4 NM to Bowling Green-Warren H-5E, 6J, 9A, L-16J Co Rgnl. 565/02E. VOR unusable 152°-179° byd 30 NM blo 6500′, 330°-350° byd 20 NM blo 3000′. BOWLING GREEN-WARREN CO RGNL (BWG) 2 SE UTC-6(-5DT) N36°57.87′ W86°25.18′ ST LOUIS 547 B S4 FUEL 100LL, JET A Class IV, ARFF Index A NOTAM FILE BWG H-5E, 9A, L-16J RWY 03-21: H6500X150 (ASPH) S-25, D-38, DT-60 HIRL 0.4% up SW ΙΔΡ RWY 03: REIL. PAPI(P4L)-GA 3.0°. RWY 21: REIL. PAPI(P4L)-GA 3.0°. RWY 12-30: H3955X150 (ASPH) S-25, D-38, DT-60 MIRL RWY 12. Post RWY 30: Thid dsplcd 349'. Road. AIRPORT REMARKS: Attended continuously, 24 hr PPR for air carrier ops with more than 30 passenger seats; call arpt manager 270-842-1101. Be alert for large numbers of birds on and invof arpt. ACTIVATE HIRL Rwy 03-21, REIL Rwv 03 and Rwv 21-CTAF. WEATHER DATA SOURCES: ASOS 127.825 (270) 843-8136. COMMUNICATIONS: CTAF/UNICOM 123.0 RCO 122.4 122.2 (LOUISVILLE RADIO) (R) MEMPHIS CENTER APP/DEP CON 133.85 AIRSPACE: CLASS E continuous. RADIO AIDS TO NAVIGATION: NOTAM FILE BWG. (H) VORTACW 117.9 BWG Chan 126 N36°55.73′ W86°26.61′ 026° 2.4 NM to fld. 565/02E. NOORA NDB (LOM) 236 BW N36°52.80′ W86°28.90′ 032° 5.9 NM to fld. LOM unusable byd 10 NM. ILS 108.75 I-BWG Rwv 03. Class IB. LOM NOORA NDB. GS unusable bvd 6° either side of LOC course. COMM/NAV/WEATHER REMARKS: IFR clearances to be canceled on 122.4 Louisville FSS. BOWMAN FLD (See LOUISVILLE) BRECKINRIDGE CO (See HARDINSBURG) BRIDL N38°07.47′ W84°30.42′ NOTAM FILE LEX. CINCINNATI NDB (LOM) 340 GN 226° 7.1 NM to Blue Grass. L-26G. 27E CADI7 LAKE BARKLEY STATE PARK (1M9) 4 SW UTC-6(-5DT) N36°49.06′ W87°54.45′ ST LOUIS 570 B NOTAM FILE LOU L-161 RWY 02-20: H4800X100 (ASPH) S-30 MIRL **4**3 03 03 03 RWY 02: REIL. VASI(V2L)-GA 3.0°TCH 48'. Trees. G G **C**3 RWY 20: REIL. VASI(V2L)-GA 3.0°TCH 41'. Trees. **3 43** C3 C3 AIRPORT REMARKS: Unattended. MIRL Rwy 02-20 preset med ints €3 dusk-dawn; to increase ints ACTIVATE-123.0. Rwy 02 and Rwy C3^{C3} €3 20 REILs out of svc indef. 43 €3 €3 WEATHER DATA SOURCES: AWOS-3 119.025 (270) 924-5916. €3 €3 ¢3 COMMUNICATIONS: CTAF/UNICOM 122.8 €3 RADIO AIDS TO NAVIGATION: NOTAM FILE CKV. €3 63 €3 CLARKSVILLE (T) VOR/DME 110.6 CKV Chan 43 N36°37.32' €3 W87°24.76' 297° 26.6 NM to fld. 540/01W. 0 Œ €3 63 **4**3 Ø €3 €3 €3 €3 C3 G G €3 Œ C3 C3 C3 €3 C3

CAMPBELL AAF (FORT CAMPBELL) (HOP)(KHOP) A (AF)

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N36°40.34' W87°29.55'
                                                                                                   H-6K. 9A. L-16I
       573 B TPA—See Remarks AOE Class I, ARFF Index A NOTAM FILE LOU Not insp.
                                                                                                         ΠΙΔΡ ΔΠ
       RWY 05-23: H11826X200 (ASPH) PCN 120 F/A/W/T HIRL
                                       RWY 23: SALS. Rgt tfc.
         RWY 05: Thid dspled 896'.
       RWY 18-36: H4500X150 (ASPH)
                                      PCN 11 F/B/W/T
       MILITARY SERVICE: JASU 3(M-32A-86) 3(AM32-95) 1(MC-2A)
                                                              FIIFI 18
                                                                      OIL 0-123-128-148-156 SP.
       MILITARY REMARKS: See FLIP AP/1 FIt Hazard and Supplementary Arpt Remark. RSTD PPR civilian acft. CAUTION R3701
         and small arms range 1000 yd dep end Rwy 23. Twy Igt between twy feeder to Rwy 05 and Rwy 36 are NSTD
         (white), do not confuse with rwy lgt, Deer hazard, Parachuting activities/exercises, IFC PAT TPA—Rotary wing
         1300(727), fixed wing Category A, B 1600(1027), Category C, D, E, 2100(1527), overhead 2600(2027).
         CSTMS/AG/IMG Avbl 72 hr prior notice rgr military acft only, DSN 635-7146. MISC No hanger transient acft. Base
         OPS 24 hr DSN 635-7146/7147, C270-798-7146/47. 24 hr wx observation and forecast svc.
       COMMUNICATIONS: SFA ATIS 125.175 308.4 PTD 130.65 142.9 230.1 (VIP arr ctc 30 min prior to ldg.)
      R APP CON 118.1 134.35X 269.525 307.025
         TOWER 120.9 278.8 GND CON 121.8 266.8 CLNC DEL 138.8
                                                                     DEP CON 118 1 269 525
           EAGLE CON 65.2 (Opr 24 hour. Ctc prior to entry R3701, R3702—128.750 285.625.)
           PMSV METRO 343.3. (Full svc during forecast hr. Poor reception from 200°-260° byd 55 NM.)
       RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.
                                Chan 96 HXW (114.9) N36°40.54′ W87°29.70′ at fld. 572/1W.
         SCREAMING EAGLE (L) TACAN
         AIRBE NDB (HW/LOM) 273 FK N36°44.22′ W87°24.83′ 225° 5.4 NM to fld. NOTAM FILE HOP.
                            Rwy 23. LOM AIRBE NDB.
         ILS 111.9 I-FKP
       COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.
CAMPBELLSVILLE
     TAYLOR CO (AAS) 2 NE UTC-5(-4DT) N37°21.50′ W85°18.57′
                                                                                                         STIDIUS
            B FUEL 100LL, JET A1+ NOTAM FILE LOU
                                                                                                  H-5E, 10F, L-26F
       RWY 05-23: H5003X75 (ASPH)
                                   S-30 MIRL 1.0% up NE
                                                                                                             ΙΔΡ
         RWY 05: REIL. PAPI(P4L)-GA 3.50° TCH 39'. Road.
         RWY 23: REIL, PAPI(P4L)—GA 3.25° TCH 37', Trees.
       AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. For arpt attendant
                                                                                             G G G
         after hrs call 270-789-1951. For fuel call 270-403-4135 or
                                                                                               G G
         270-469-0133. Fuel avbl after hrs with credit card, MIRL Rwy
                                                                                             C3
         05-23 preset on low ints: to increase ints and ACTIVATE REIL
         Rwvs 05 and 23-CTAF.
       WEATHER DATA SOURCES: AWOS-3 121.125 (270) 789-1985.
                                                                                                        'n
                                                                                          503×15
       COMMUNICATIONS: CTAF/UNICOM 122.7
                                                                                                        03
                                                                                                     œ<sub>©</sub>
                                                                           C3
                                                                        €3
      R INDIANAPOLIS CENTER APP/DEP CON 121.175
                                                                         c c
                                                                                                     63
       RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.
                                                                        a a
         NEW HOPE (L) VOR/DME 110.8 EWO Chan 45 N37°37.91'
           W85°40 55'
                        132° 24 NM to fld. 960/01E.
         NDB (MHW) 272
                        TYC N37°24.11′ W85°14.62′
                                                          232° 4.1 NM
           to fld. NDB unmonitored 2200-1300Z‡.
                                                                                ය ය
         SDF 111.1
                    I-AAS
                             Rwv 23. SDF unmonitored
           2200-1300Z‡.
                                                                                 3
     CAPITAL CITY (See FRANKFORT)
     CENTRAL CITY N37°22.95′ W87°15.82′ NOTAM FILE LOU.
                                                                                                         ST LOUIS
       (L) VORTAC 109.8 CCT
                                         257° 6.7 NM to Madisonville Muni. 450/01W.
                             Chan 35
                                                                                                           L-161
       RCO 122.1R 109.8T (LOUISVILLE RADIO)
     CINCINNATI/NORTHERN KENTUCKY INTL (See COVINGTON)
     COLUMBIA-ADAIR CO. (196)
                                    2 SW UTC-6(-5DT) N37°05.12' W85°20.83'
                                                                                                         ST LOUIS
       818 B FUEL 100LL NOTAM FILE LOU
       RWY 08-26: H2600X60 (ASPH-AFSC)
                                         S-12 MIRI
                             RWY 26: SAVASI(S2L)-GA 4.0° TCH 31'. Trees.
       AIRPORT REMARKS: Unattended. 24 hr credit card svc avbl for fuel. ACTIVATE MIRL Rwy 08-26 and SAVASI Rwy
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2 NW UTC-6(-5DT)

STIINI T2

COMMUNICATIONS: CTAF/UNICOM 122.8

COVINGTON

CINCINNATI/NORTHERN KENTUCKY INTL (CVG) 8 SW UTC-5(-4DT)

N39°02.93′ W84°40.07′

CINCINNATI H-10G, L-26G, 27E

896 B S4 FUEL 100LL, JET A LRA Class I, ARFF Index D RWY 09-27: H12000X150 (ASPH-CONC-GRVD) S-75, D-210,

ST-175, DT-400, DDT-850 HIRI CI

RWY 09: MALSR. PAPI(P4L)—GA 3.0° TCH 76'. 0.3% down.

RWY 27: MALSR(NSTD). VASI(V4L)-GA 3.0° TCH 60'.

RWY 18C-36C: H11000X150 (ASPH-CONC-GRVD) S-75, D-210.

ST-175, DT-400, DDT-850 HIRL CL

RWY 18C: SSALR. TDZL. VASI(V4R)-GA 3.0°TCH 52'.

RWY 36C: ALSF2. TDZL. PAPI (P4L). 0.6% un

RWY 18L-36R: H10000X150 (CONC-GRVD) S-75, D-210, ST-175, DT-400, DDT-850 HIRL CL

RWY 18L: MALSR, TDZL, PAPI (P4R).

RWY 36R: ALSF2, TDZL, PAPI (P4R).

RWY 18R-36L: H8000X150 (CONC-GRVD) S-75, D-210, DT-400 DDT-850 HIRL CI

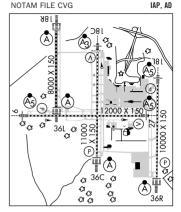
RWY 18R: ALSF2, TDZL.

RWY 36L: ALSF2. TDZL. Tree.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 09: TORA-12000 TODA-12000 ASDA-11880 LDA-11880 RWY 27: TORA-12000 TODA-12000 ASDA-12000 LDA-12000

AIRPORT REMARKS: Attended continuously. Successive or simultaneous



deps from Rwy 18L/C are approved with course divergence beginning no further than 2 miles from end of rwy due to noise abatement restrictions. Successive or simultaneous departures from Rwy 36L and Rwy 36R are approved with course divergence beginning no further than 2 miles from EOR due to noise abatement restrictions. Noise sensitive areas N and S of arpt. Rwy assignments between 0300-1200Z‡ will be predicated on noise abatement considerations. Rwy 09-27 west 4200' concrete, east 750' concrete, remainder asphalt overlay. For Rwy 09-27 and Rwy 18C-36C gross weight strength for DC-10 and L-1011 aircraft is 510,000 pounds. For all rwys gross weight strength for 777 aircraft is 595,000 pounds. For all rwys gross weight strength for MD11 aircraft is 605,000 pounds. Rwy 18R touchdown, midfield and rollout runway visual range avbl. Rwy 36L touchdown, midfield and rollout runway visual range avbl. Rwy 36R touchdown, midfield and rollout runway visual range avbl. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Noise Abatement Procedures

WEATHER DATA SOURCES: ASOS (859) 767-8210. TDWR.

COMMUNICATIONS: D-ATIS ARR 134.375 D-ATIS DEP 135.3 UNICOM 122.95

RCO 122.1R 117.3T (LOUISVILLE RADIO)

(R) APP CON 123.875 (270°-089°) 119.7 (090°-269°)

TOWER 118.3 (Rwy 18C-36C and Rwy 09-27) 133.325 (Rwy 18R-36L) 118.975 (Rwy 18L-36R) GND CON 121.3 (East) 121.7 (West)

CLNC DEL 127.175

(R) DEP CON 128.7 (220°-040°) 126.65 (041°-219°)

AIRSPACE: CLASS B svc continuous ctc APP CON RADIO AIDS TO NAVIGATION: NOTAM FILE CVG.

(L) VORTAC 117.3 CVG Chan 120 N39°00.96′ W84°42.20′ 044° 2.6 NM to fld. 879/4W.

I–JDP Rwy 27. Class IT. LOC unusable byd 20° right of course.

ILS/DME 110.15 I-CIZ Chan 38(Y) Rwy 18L. Class IA. LOC unusable byd 25° left of course.

ILS/DME 111.55 Chan 52(Y) I-SIC Rwv 18C. Class IB.

IIS/DMF 111 9 I-URN Chan 56 Rwy 09. Class IB

Rwy 36C. ILS/DME 109.9 I-CVG Chan 36 Class IIIE.

ILS/DMF 110 35 I-FFI Chan 40(Y) Rwy 36R. Class IIIF ILS/DME 110.75 I-VAC Chan 44(Y) Rwy 36L.

ILS/DME 110.75 I-CJN Chan 44(Y) Rwy 18R. Class IIIE.

CUMBERLAND RIVER N36°59.77′ W84°40.88′ NOTAM FILE LOU.

NDB (MHW) 388 CDX 048° 4.7 NM to Lake Cumberland Rgnl. NDB unmonitored. CINCINNATI L-26G

CUNNINGHAM N37°00.52′ W88°50.22′ NOTAM FILE PAH.

(L) VORTACW 113.1 CNG Chan 78 041° 4.4 NM to Barkley Rgnl. 480/03E. ST LOUIS L-16H

CYNTHIANA-HARRISON CO (ØI8) 2 S UTC-5(-4DT) N38°21.97′ W84°17.00′

721 B S2 FUEL 100LL NOTAM FILE LOU

RWY 11-29: H3852X75 (ASPH) S-16, D-25 MIRL

RWY 11: REIL. SAVASI(S2L)—GA 4.5°TCH 41'. Railroad.

RWY 29: REIL. SAVASI(S2L)—GA 5.0°TCH 33'. Thid dspicd 1095'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

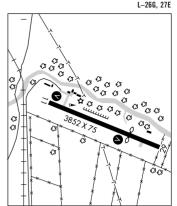
RWY 11: TORA-2757 TODA-3852 ASDA-3852 LDA-3852 **RWY 29:** TORA-3852 TODA-3852 ASDA-3852 LDA-2757

AIRPORT REMARKS: Attended 1300Z‡-dusk. Fuel 24 hr credit card svc avbl. Rwy 29 ThId crossing height: TCH 33' over dsplod thId. MIRL Rwy 11–29 preset low ints. To increase ints and ACTIVATE SAVASI Rwys 11 and 29 and REIL Rwys 11–29—122.9.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

FALMOUTH (H) VOR/DME 117.0 FLM Chan 117 N38°38.97′ W84°18.64′ 180° 17.0 NM to fld. 810/04W.



CINCINNATI

CINCINNATI

DANVILLE

STUART POWELL FLD (DVK) 3 S UTC-5(-4DT) N37°34.68′ W84°46.18′

1022 B S2 **FUEL** 100LL, JET A NOTAM FILE LOU **RWY 12-30**: H5000X75 (ASPH) S-15.5 MIRL

RWY 12: PAPI(P4L)—GA 3.5° TCH 34'. Trees.

RWY 30: REIL. PAPI(P4L)—GA 3.0° TCH 29'.

RWY 01–19: H2357X75 (ASPH–RFSC) 0.4% up N

RWY 01: Fence. RWY 19: Thid dsplcd 552'. Hill.

AIRPORT REMARKS: Attended Sun 1700–0000Z‡, Nov-Mar Mon-Sat 1330–2200Z‡, Apr-Oct Mon-Sat 1330–0000Z‡. Aerobatic practice area over S side of arpt. Aim point markings 1200' from marked thid. ACTIVATE MIRL Rwy 12–30, PAPI Rwy 12–30 and REIL Rwy 30—CTAF.

WEATHER DATA SOURCES: AWOS-3 128.325 (859) 854-0058.

COMMUNICATIONS: CTAF/UNICOM 122.8

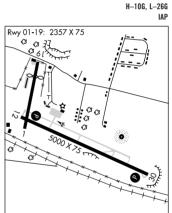
R LEXINGTON APP/DEP CON 120.15

RADIO AIDS TO NAVIGATION: NOTAM FILE LEX.

LEXINGTON (L) VORTAC 112.6 HYK Chan 73 N37°57.98′ W84°28.35′ 211° 27.2 NM to fld. 1039/00E.

GOODALL NDB (MHW) 311 $\,$ DVK $\,$ N37°34.59' W84°45.84' at fld. NOTAM FILE LOU.

ILS/DME 108.9 I-PQQ Chan 26 Rwy 30. LOC only.



DAWSON SPRINGS

TRADEWATER (8M7) 2 E UTC-6(-5DT) N37°11.34′ W87°40.50′

405 NOTAM FILE LOU

RWY 18-36: 2875X80 (TURF)

RWY 18: Trees. RWY 36: Trees.

AIRPORT REMARKS: Unattended. Rwy 18-36 Rwy edges marked by white painted tires.

COMMUNICATIONS: CTAF 122.9

ST LOUIS

ELIZABETHTOWN

ADDINGTON FLD (EKX) 4 W UTC-5(-4DT) N37°41.16′ W85°55.50′

775 B S4 **FUEL** 100LL, JET A NOTAM FILE LOU

RWY 05–23: H6001X100 (ASPH) S–35 MIRL 0.4% up NE

RWY 05: REIL. PAPI(P4L)—GA 3.0° TCH 36'. Tree.

RWY 23: REIL. PAPI(P4L)—GA 3.0° TCH 30'.

AIRPORT REMARKS: Attended Mon-Fri 1300Z‡-dusk, Sat-Sun 1400-2300Z‡. Deer and birds on and invof arpt. Parachute Jumping. MIRL Rwy 05–23 preset low intensity and REIL Rwy 05 and Rwy 23 ops dusk-dawn, to increase intensity MIRL Rwy 05–23 and ACTIVATE REIL Rwy 05–23—CTAF. PAPI Rwy 05 and Rwy 23 ops 24 hrs.

WEATHER DATA SOURCES: AWOS-3 121.025 (270) 763-6433.

COMMUNICATIONS: CTAF/UNICOM 122.8

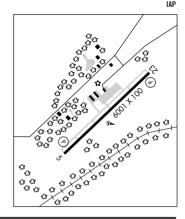
R LOUISVILLE APP/DEP CON 132.075(E) 123.675(W)

CLNC DEL 119.45 (except Sun and Mon 0500-1130Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

NEW HOPE (L) VOR/DME 110.8 EWO Chan 45 N37°37.91′ W85°40.55′ 284° 12.3 NM to fld. 960/01E.

ILS/DME 109.75 I–ADR Chan 34(Y) Rwy 05. (LOC only)



FALLS-OF-ROUGH

ROUGH RIVER STATE PARK (213) 3 NE UTC-6(-5DT) N37°36.59′ W86°30.43′

ST LOUIS L-16J

ST LOUIS

H-5E, 10F, L-16J

577 B NOTAM FILE LOU

RWY 02-20: H3200X75 (ASPH) S-8 MIRL

RWY 02: Road. RWY 20: PAPI(P4L)-GA 3.0° TCH 28'. Tree.

AIRPORT REMARKS: Attended continuously. UNICOM monitored

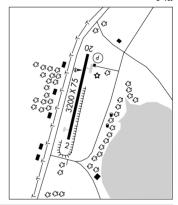
irregularly.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

CENTRAL CITY (L) VORTAC 109.8 CCT Chan 35

N37°22.95′ W87°15.82′ 070° 38.6 NM to fld. 450/01W.



FALMOUTH

GENE SNYDER (K62) 4 NW UTC-5(-4DT) N38°42.24′ W84°23.51′

899 B **FUEL** 100LL NOTAM FILE LOU

RWY 03-21: H3994X75 (ASPH) S-12.5 MIRL 0.4% up SW

RWY 03: PAPI(P4L)—GA 3.5° TCH 37'. Trees.

RWY 21: PAPI(P4L)-GA 3.5° TCH 41'.

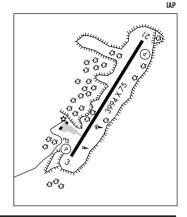
AIRPORT REMARKS: Attended 1300-2200Z‡. ACTIVATE MIRL Rwy

COMMUNICATIONS: CTAF/UNICOM 122.7

CINCINNATI APP/DEP CON 121.0

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

FALMOUTH (H) VOR/DME 117.0 FLM Chan 117 N38°38.97′ W84°18.64′ 315° 5.0 NM to fld. 810/04W.



FALMOUTH N38°38.97′ W84°18.64′ NOTAM FILE LOU.

CINCINNATI

CINCINNATI

CINCINNATI

L-26G. 27E

(H) VOR/DME 117.0 FLM Chan 117 353° 27.7 NM to Cincinnati Muni Arpt Lunken Fld, OH. H-106, L-266, 27E 810/04W.

RCO 122.1R 117.0T (LOUISVILLE RADIO)

FLEMING-MASON (See FLEMINGSBURG)

FLEMINGSBURG

FLEMING-MASON (FGX) 7 N UTC-5(-4DT) N38°32.51′ W83°44.60′

913 B S4 FUEL 100LL, JET A1+ NOTAM FILE LOU

RWY 07-25: H5001X75 (ASPH) S-36, D-50 MIRL

RWY 07: REIL. PAPI(P4L)—GA 3.0° TCH 40′. Thid dsplcd 299′.

RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 40'.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡, Sat 1500-2100,

Sun 1600-2100Z \ddagger . For svc after hrs call 606-845-6801.

Parachute Jumping. ACTIVATE MIRL Rwy 07–25; REIL and PAPI Rwy 07 and Rwy 25—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.125 (606) 742-2008.

COMMUNICATIONS: CTAF/UNICOM 123.0

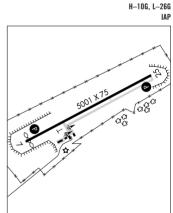
INDIANAPOLIS CENTER APP/DEP CON 124.225

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

 $\textbf{FALMOUTH (H) VOR/DME} \ 117.0 \hspace{0.5cm} \textbf{FLM} \hspace{0.5cm} \textbf{Chan} \ 117 \hspace{0.5cm} \textbf{N} 38^{\circ} 38.97'$

W84°18.64′ 107° 27.5 NM to fld. 810/04W.

FLMNG NDB (MHW/LOM) 400 XW N38°34.42′ W83°38.82′



FLMNG N38°34.42′ W83°38.82′ NOTAM FILE LOU.

NDB (MHW/LOM) 400 XW 252° 4.9 NM to Fleming-Mason. NDB unusable 030°-120° byd 10 NM.

CINCINNATI L-26G

FORT CAMPBELL (See CAMPBELL AAF)

FORT KNOX N37°54.45′ W85°58.37′ NOTAM FILE FTK.

(T) VOR/DME 109.6 FTK Chan 33 at Godman AAF. 740/01W.

ST LOUIS L-16J

FRANKFORT

CAPITAL CITY (FFT) 1 SW UTC-5(-4DT) N38°10.92′ W84°54.37′

806 B S4 FUEL 100LL, JET A1+ TPA-1802(996) NOTAM FILE FFT

RWY 06-24: H5905X100 (ASPH) S-44, D-51, DT-82 MIRL 0.5% up SW

H-10G, L-26G, 27E ΙΔΡ

CINCINNATI

RWY 06: REIL. PAPI(P4L)-GA 3.0° TCH 31'. Trees.

RWY 24: REIL. PAPI(P4L)-GA 3.5° TCH 34'. Pole.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06: TORA-5500 TODA-5500 ASDA-5500 LDA-5500 RWY 24: TORA-5900 TODA-5900 ASDA-5900 LDA-5900

AIRPORT REMARKS: Attended 1100-0300Z‡. Deer and birds on and

invof arpt. Rwy 06 departures maintain rwy heading until 1000 AGL before making turn on course. P-line 742 ft from Rwv 24 end Igtd. ACTIVATE MIRL Rwy 06-24, PAPI Rwy 06 and Rwy 24, and REIL Rwv 06 and Rwv 24-CTAF.

WEATHER DATA SOURCES: ASOS 119.275 (502) 227-5087 COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.1R 109.4T (LOUISVILLE RADIO)

R LEXINGTON APP/DEP CON 120.75 CLNC DEL 118.1

RADIO AIDS TO NAVIGATION: NOTAM FILE LEX.

LEXINGTON (L) VORTAC 112.6 HYK Chan 73 N37°57.98' W84°28.35' 302° 24.3 NM to fld. 1039/00E.

FRANKFORT (T) VOR 109.4 FFT N38°10.95′ W84°54.52′ fld. VOR unusable 001°-104° bvd 10 NM blo 6000′. 105°-360° blo 6.000', NOTAM FILE LOU.

ILS/DME 109.95 I-FFT Chan 36(Y) Rwy 24. LOC only.

HELIPAD H1: H100X100 (CONC)

HELIPORT REMARKS: Uncontrolled military helicopter traffic N of Rwy 06-24. Daniel Boone Heliport located one-half NM North of Rwy 24 thld. Military helicopters use right base to Rwy 24.

FRANKFORT N38°10.95′ W84°54.52′ NOTAM FILE LOU.

CINCINNATI L-26G, 27E

(T) VOR 109.4 FFT at Capital City. VOR unusable 001°-104° byd 10 NM blo 6000′, 105°-360° blo 6000'.

RCO 122.1R 109.4T (LOUISVILLE RADIO)

FULTON (1M7) 2 NW UTC-6(-5DT) N36°31.55′ W88°54.94′

ST LOUIS

400 B S2 FUEL 100LL NOTAM FILE LOU

RWY 09-27: H2700X60 (ASPH) S-12 MIRL

RWY 09: REIL. VASI(V2L). Trees. RWY 27: REIL. VASI(V2L). Tree.

AIRPORT REMARKS: Unattended. ACTIVATE MIRL Rwy 09-27 and REIL Rwys 09 and 27—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

GENE SNYDER (See FALMOUTH)

GENEVA N37°48.19′ W87°46.25′ NOTAM FILE LOU.

NDB (MHW) 224 GVA 087°4.1 NM to Henderson City-Co.

STIINI TR L-161

GEORGETOWN SCOTT CO-MARSHALL FLD (27K) 6 E UTC-5(-4DT) N38°14.07' W84°26.08' CINCINNATI H-10G, L-26G, 27E

947 B FUEL 100LL, JET A NOTAM FILE LOU

RWY 03-21: H5498X100 (ASPH) S-30 HIRL 0.3% up NE

RWY 03: REIL. PAPI(P4L)-GA 3.0° TCH 34'.

RWY 21: REIL. PAPI(P4L)-GA 3.0° TCH 30'. Trees.

AIRPORT REMARKS: Attended 1300-0200Z‡. Rwy 03-21 SW 1500' unigtd. For fuel after hrs call 859-608-8858. Fee charged.

ACTIVATE HIRL Rwy 03-21; PAPI Rwy 03 and Rwy 21 REIL Rwy 03 and Rwy 21 and Igtd wind sock-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.975 (502) 867-1564.

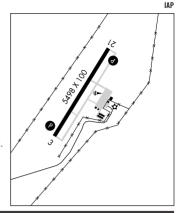
COMMUNICATIONS: CTAF/UNICOM 123.0

R LEXINGTON APP/DEP CON 120.75 (221°-039°) 120.15 (040°-220°) **CLNC DEL** 127.425

RADIO AIDS TO NAVIGATION: NOTAM FILE LEX.

LEXINGTON (L) VORTAC 112.6 HYK Chan 73

N37°57.98′ W84°28.35′ 006° 16.2 NM to fld. 1039/00E.



GILBERTSVILLE

KENTUCKY DAM STATE PARK (M34) 1 NW UTC-6(-5DT) N37°00.58' W88°17.96'

349 B NOTAM FILE LOU

RWY 09-27: H4000X100 (ASPH) S-12.5

MIRL RWY 09: REIL. PAPI(P4L)-GA 4.0° TCH 21'. Trees.

RWY 27: REIL. PAPI(P4L)—GA 4.0° TCH 21'. Trees.

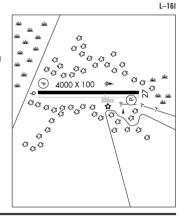
AIRPORT REMARKS: Unattended. Deer and large flocks of geese on and invof arpt. MIRL Rwy 09-27 preset med ints; to increase ints and ACTIVATE REIL Rwv 09-27-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.075 (270) 362-9685.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE PAH.

CUNNINGHAM (L) VORTACW 113.1 CNG Chan 78 N37°00.52' W88°50.22' 087° 25.8 NM to fld. 480/03E.



ST LOUIS

GLASGOW MUNI (GLW) 2 NW UTC—6(—5DT) N37°01.91′ W85°57.23′

716 B \$2 FUEL 100LL, JET A+ N0TAM FILE LOU

RWY 07-25: H5301X100 (ASPH) S—30 HIRL

RWY 07: REIL. PAPI(P2L)—GA 3.0°TCH 26′.

RWY 25: REIL. PAPI(P2L)—GA 3.25° TCH 29′. ThId dsplcd 301′.

Road.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 07: TORA—5301 TODA—5301 ASDA—5000 LDA—5000

RWY 25: TORA—5301 TODA—5301 ASDA—5000 LDA—5000

AIRPORT REMARKS: Attended Mon—Sat 1400—2300Z‡. For svc after hrs call 270—678—4400. Parachute Jumping. Rwy 25 NSTD location of dsplcd thild markings 40′ from dsplcd thild Igts (Igts in correct position at 288′ markings at 328′). HIRL Rwy 07–25 preset low

WEATHER DATA SOURCES: AWOS-3 118.525 (270) 678-5787. COMMUNICATIONS: CTAF/UNICOM 122.8

ints, to increase ints and ACTIVATE REIL Rwy 07 and Rwy

R MEMPHIS CENTER APP/DEP CON 132.1

25-CTAF.

RADIO AIDS TO NAVIGATION: NOTAM FILE BWG.

BOWLING GREEN (H) VORTACW 117.9 BWG Chan

126 N36°55.73′ W86°26.61′ 073° 24.3 NM to fld. 565/02E.

BEAVER CREEK NDB (MHW) 260 BVQ N37°01.05′ W86°00.55′ 074° 2.8 NM to fld. NOTAM FILE LOU.

SDF 108.5 GLW Rwy 07. SDF unmonitored 2200-1300Z‡.

5301 X 100 @0

STIIOLITS

SILIO LTS

H-5E, 10F, L-16J DIAP

ΙΔΡ

H-5E, 9A, L-16J

GODMAN AAF (FTK)(KFTK) A 1 W UTC-5(-4DT) N37°54.42′ W85°58.32′
756 B NOTAM FILE FTK Not insp.

RWY 18-36: H5185X150 (ASPH) PCN 120 F/A/W/T HIRL

RWY 18-33: H4853X75 (ASPH) PCN 120 F/A/W/T HIRL

RWY 15-33: H4853X75 (ASPH) PCN 120 F/A/W/T HIRL

RWY 15: REIL.

RWY 99-27: H4999X150 (PEM) PCN 10 F/A/W/T

MWY 05–23: H1900X90 (ASPH) PCN 12 F/A/W/T

MILITARY SERVICE: JASU 1(AGPU) FUEL J8 AvbI Mon–Sun 1100–0300Z‡ excluding Federal holidays. OIL 0–156

MILITARY REMARKS: See FLIP AP/1 Supplementary Arpt Remarks. Ctc twr prior to engine start. Restricted area 1 NM

SE of airfield. RST0 Rwy 09–27 CLOSED until further notice. Official Business Only, PPR, DSN 464–5545,
C502–624–5545. Inbound acft Code 7 or abv ctc Base OPS 20 minutes prior to Idg. CAUTION Do not overfly the
Gold Depository located 1 NM south of apch end Rwy 36. TFC PAT West side of airfield. MISC Wx forecast
1200–0100Z‡. Visibility restricted to ½16 NM due to hangar. FMQ–19 Wx Sensor and Runway Visual Range
sensor located near mid–field, all readings are taken from that point. Wx observation automated and augmented

as required. Ctc Gnd prior to engine start. Other times ctc Scott OWS DSN 576-9755/9702, C618-256-9755/9702 HTTPS://150WS.SCOTT.AF.MIL-FMQ-19 in use.

COMMUNICATIONS: CTAF 133.35 233.7 ATIS 109.6 (Mon-Fri 1100-0300Z‡, Sat-Sun 1200-2000Z‡ excluding

holidays.)

R LOUISVILLE APP/DEP CON 123.675 132.07 327.0

TOWER 133.35 233.7 (Mon-Fri 1100-0300Z‡, Sat-Sun 1200-2000Z‡ except hols. Other times ctc Godman Advisory svc on twr freq). GND CON 121.9 239.3 PMSV METRO 139.65 (Full svc during forecast hours.) OPS 126.2 234.4 AIR TO AIR 237.5

AIRSPACE: CLASS D svc Mon-Fri 1100-0300Z‡, Sat-Sun 1200-2000Z‡ except holidays other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE FTK.

FORT KNOX (T) VOR/DME 109.6 FTK Chan 33 N37°54.45′ W85°58.37′ at fld. 740/1W.

MYSTIC (L) VOR 108.2 MYS N37°53.64′ W86°14.67′ 087° 13.0 NM to fld. NOTAM FILE LOU.

NDB (MHW) 396 GOI N37°57.52′ W85°58.60′ 178° 3.1 NM to fld.

GOODALL N37°34.59′W84°45.84′ NOTAM FILE LOU.

CINCINNATI L-26G

GRAYSON CO (See LEITCHFIELD)

GREENVILLE

MUHLENBERG CO (M21) 2 NE UTC-6(-5DT) N37°13.57′ W87°09.38′

422 B S4 FUEL 100LL, JET A NOTAM FILE LOU

RWY 05-23: H5000X75 (ASPH) S-28 MIRL

RWY 05: REIL. SAVASI(S2L)-GA 5.0° TCH 30'. Road.

RWY 23: REIL. SAVASI(S2L)—GA 5.0° TCH 25'. Thid dspicd 400'. Road

AIRPORT REMARKS: Attended 1400–2300Z‡. Prior arrangement for svc after hr call 270–338–9419. 100LL fuel self serve 24 hrs with credit card. JET A fuel avbl on req during hrs arpt attended. For JET A fuel and other svc after hrs call 270–543–5198. Parachute Jumping. Marked and Igtd p–line under Rwy 05 apch 1000′ from rwy end. ACTIVATE MIRL Rwy 05–23; SAVASI and REIL Rwys 05 and 23—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.375 (270) 338-7788.

COMMUNICATIONS: CTAF/UNICOM 123.0

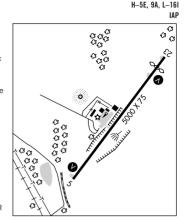
R EVANSVILLE APP/DEP CON 126.4 (1200-0500Z‡)

R MEMPHIS CENTER APP/DEP CON 133.85. (0500-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

CENTRAL CITY (L) VORTAC 109.8 CCT Chan 35 N37°22.95′ W87°15.82′ 152° 10.7 NM to fld. 450/01W.

NDB (MHW) 362 GMH N37°13.62′ W87°09.55′ at fld. VFR only.



211101 T2

ST LOUIS

L-16J

HANCOCK CO-RON LEWIS FLD (See LEWISPORT)

HARDINSBURG

BRECKINRIDGE CO (193) 1 E UTC-6(-5DT) N37°47.10′ W86°26.52′

735 B NOTAM FILE LOU

RWY 09-27: H3500X75 (ASPH) S-5 LIRL

RWY 09: Road. RWY 27: Trees.

AIRPORT REMARKS: Unattended.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

NEW HOPE (L) VOR/DME 110.8 EWO Chan 45 N37°37.91′ W85°40.55′ 283° 37.6 NM to fld. 960/01E.

HARLAN

TUCKER-GUTHRIE MEML (I35) 2 NW UTC-5(-4DT) N36°51.56′ W83°21.51′

CINCINNATI L-26H

1551 **FUEL** JET A NOTAM FILE LOU

RWY 08–26: H2700X75 (ASPH) S–24 1.0% down SW

RWY 08: VASI (NSTD). Trees. RWY 26: Thid dsplcd 670'. Trees.

AIRPORT REMARKS: Attended 1400Z‡-dusk. CAUTION—Arpt located in mountainous terrain, possible turbulence. Rwy 08 2-box VASI on both sides of rwy for day use only. ACTIVATE VASI Rwy 08—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

HARTFORD

OHIO CO (7K4) 3 NE UTC-6(-5DT) N37°27.50′ W86°51.00′ 535 B S4 FUEL 100LL, JET A OX 1 NOTAM FILE LOU RWY 03-21: H4818X60 (ASPH) S-12.5 MIRL

RWY 03: PAPI(P2L)-GA 3.0° TCH 40'.

RWY 21: PAPI(P2L)-GA 4.0° TCH 44'. Trees.

AIRPORT REMARKS: Attended 1400–2300Z‡. Deer on and invof arpt. For after hours svc call 270–298–3500. ACTIVATE MIRL Rwy 03–21 and PAPI Rwys 03 and 21—CTAF. Lgts also avbl by phone request by calling 270–298–3500.

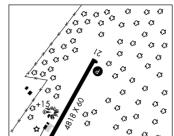
COMMUNICATIONS: CTAF/UNICOM 122.8

EVANSVILLE APP/DEP CON 126.4 (1200-0500Z±)

INDIANAPOLIS CENTER APP/DEP CON 128.3 (0500-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

CENTRAL CITY (L) VORTAC 109.8 CCT Chan 35 N37°22.95′ W87°15.82′ 078° 20.3 NM to fld. 450/01W.



HAZARD

WENDELL H FORD (K2Ø) 10 NW UTC-5(-4DT) N37°23.24′ W83°15.70′

1253 B S2 **FUEL** 100LL, JET A+ NOTAM FILE LOU **RWY 14–32**: H5500X100 (ASPH) S–30 MIRL

RWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 29'. Trees.

RWY 32: REIL. PAPI(P4R)—GA 4.0. TCH 38'. Hill.

RWY 06-24: H3250X60 (ASPH) S-12

RWY 06: Thid dspicd 277'. RWY 24: Thid dspicd 282'. Trees. AIRPORT REMARKS: Attended 1300–dusk. Rwy 06–24 moderate cracking. Rwy 06 dspicd thid lgts 65 ft W of marked dspicd thid. Rwy 24 dspicd thid lgts 10 ft E of marked dspicd thid. Rwy 32 PAPI unusable byd 2.5 NM. Unusable byd 7° right of final and byd 5° left of final. ACTIVATE MIRL Rwy 14–32, REIL Rwy 14 and Rwy 32, PAPI Rwy 14 and Rwy 32—CTAF. Ldg fee: ramp fees.

WEATHER DATA SOURCES: AWOS-3 119.025 (606) 435-2452.

COMMUNICATIONS: CTAF/UNICOM 122.7

HAZARD RCO 122.1R 111.2T (LOUISVILLE RADIO)

R INDIANAPOLIS CENTER APP/DEP CON 126.575.

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

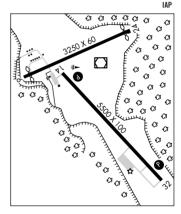
HAZARD (L) VOR/DME 111.2 AZQ Chan 49 N37°23.48′ W83°15.78′ at fld. 1247/04W.

CINCINNATI H-10g, 12g, L-26H

. G G

ST LOUIS

L-16I IAP



HAZARD N37°23.48′ W83°15.78′ NOTAM FILE LOU.

(L) VOR/DME 111.2 AZQ Chan 49 at Wendell H Ford. 1247/04W.

DME unusable byd 25 NM blo 4500'.

RCO 122.1R 111.2T (LOUISVILLE RADIO)

CINCINNATI

L-26H

HENDERSON CITY-CO (EHR) 4 W UTC-6(-5DT) N37°48.47′ W87°41.14′

387 B S3 **FUEL** 100, JET A OX 3 NOTAM FILE EHR **RWY 09-27**: H5504X100 (ASPH) S-30 MIRL

RWY 09: REIL. PAPI(P4L)-GA 3.0° TCH 47'.

RWY 27: REIL. Road.

AIRPORT REMARKS: Attended Mon-Fri 1300Z‡-dusk, Sat-Sun

1400Z‡—dusk. MIRL Rwy 09–27 preset on low ints; to increase ints—CTAF. ACTIVATE PAPI Rwy 09 and REIL Rwy 09 and Rwy

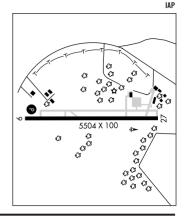
WEATHER DATA SOURCES: AWOS-3 128.175 (270) 826-0511.
COMMUNICATIONS: CTAF/UNICOM 122.8

- R EVANSVILLE APP/DEP CON 126.4 (1200-0500Z‡)
- R INDIANAPOLIS CENTER APP/DEP CON 128.3 (0500-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE HUF.

POCKET CITY (H) VORTACW 113.3 PXV Chan 80 N37°55.70′ W87°45.74′ 150° 8.1 NM to fld. 384/03E.

GENEVA NDB (MHW) 224 GVA N37°48.19′ W87°46.25′ 087° 4.1 NM to fld. NOTAM FILE LOU.



HIGUY N37°38.14′ W87°09.73′ NOTAM FILE OWB.

NDB (LOM) 341 OW 360° 6.3 NM to Owensboro-Daviess Co.

ST LOUIS

STIINI T2

H-5E, L-16I

HONEY GROVE N36°52.84′ W87°20.25′ NOTAM FILE LOU.

NDB (MHW) 356 HIX 257° 5.8 NM to Hopkinsville—Christian Co.

L-16I ST LOUIS

IAP

H-6K, 9A, L-16I

HOPKINSVILLE-CHRISTIAN CO (HVC) 2 E UTC-6(-5DT) N36°51.42′ W87°27.31′

564 B **FUEL** 100LL, JET A+ NOTAM FILE LOU

RWY 08-26: H5505X100 (ASPH) S-14 MIRL 0.5% up E RWY 08: REIL. PAPI (P4L)—GA 3.5° TCH 38'. Trees.

RWY 26: REIL. PAPI (P4L)—GA 4.0° TCH 34'.

AIRPORT REMARKS: Attended 1400–0100Z‡, Parachute Jumping.

ACTIVATE MIRL Rwy 08–26 and REIL Rwy 08 and Rwy 26—122.8. WEATHER DATA SOURCES: AWOS-3 132.575 (270) 886–6311.

COMMUNICATIONS: CTAF/UNICOM 122.8

R CAMPBELL APP/DEP CON 118.1 CLNC DEL 120.9

RADIO AIDS TO NAVIGATION: NOTAM FILE CKV.

CLARKSVILLE (T) VOR/DME 110.6 CKV Chan 43 N36°37.32′ W87°24.76′ 353° 14.2 NM to fld. 540/01W.

HONEY GROVE NDB (MHW) 356 HIX N36°52.84′ W87°20.25′ 257° 5.8 NM to fld. NOTAM FILE LOU.

ILS 109.1 I-HVC Rwy 26. Localizer only.

COMM/NAV/WEATHER REMARKS: Key mike 3 times and wait for Clnc Del. CLNC DEL OTS indef.

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JACKSON

JULIAN CARROLL (JKL) 4 NE UTC-5(-4DT) N37°35.63′ W83°19.04′ 1381 B NOTAM FILE JKL

RWY 01-19: H4400X75 (ASPH) S-12.5 MIRL 0.6% up N

RWY 01: REIL. Trees. RWY 19: REIL.

AIRPORT REMARKS: Attended continuously. MIRL Rwy 01–19 OTS indef. REIL Rwy 01 and Rwy 19 OTS indef. ACTIVATE MIRL Rwy 01–19 and REIL Rwy 01 and Rwy 19—CTAF.

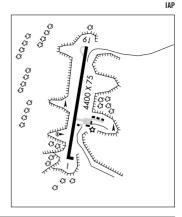
WEATHER DATA SOURCES: ASOS 118.375 (606) 666-2794

COMMUNICATIONS: CTAF/UNICOM 122.8

R INDIANAPOLIS CENTER APP/DEP CON 126.57

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

HAZARD (L) VOR/DME 111.2 AZQ Chan 49 N37°23.48′ W83°15.78′ 352° 12.4 NM to fld. 1247/04W.



CINCINNATI

L-26H

JAMESTOWN

RUSSELL CO (K24) 2 NW UTC-6(-5DT) N37°00.58′ W85°06.16′

1011 B S4 **FUEL** 100LL, JET A NOTAM FILE LOU

RWY 17-35: H5000X75 (ASPH) S-12 MIRL 1.0% up N RWY 17: REIL. PAPI(P4L)-GA 4.0° TCH 36'. Trees.

RWY 35: REIL. PAPI(P4L)-GA 3.0° TCH 39'. Trees.

AIRPORT REMARKS: Attended 1400-2300Z‡. Fuel after hrs, call

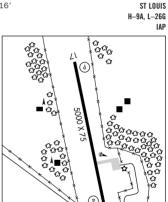
270–343–2739. Drag strip at old arpt, approximately 1 mile NE, Do Not mistake for rwy. ACTIVATE MIRL Rwy 17–35—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.6 (270) 343-5556.

COMMUNICATIONS: CTAF/UNICOM 123.0

INDIANAPOLIS CENTER APP/DEP CON 124.625 RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

LIVINGSTON (L) VORTAC 108.4 LVT Chan 21 N36°35.07′ W85°10.00′ 009° 25.7 NM to fld. 1020/02W.



ST LOUIS

JULIAN CARROLL (See JACKSON)

KENTUCKY DAM STATE PARK (See GILBERTSVILLE)

KYLE-OAKLEY FLD (See MURRAY)

LAANG N38°08.69′ W85°38.00′ NOTAM FILE SDF.

NDB (LOM) 414 LK 293° 5.2 NM to Louisville Intl-Standiford Fld.

LAKE BARKLEY STATE PARK (See CADIZ)

LAKE CUMBERLAND RGNL (See SOMERSET)

LEBANON-SPRINGFIELD (See SPRINGFIELD)

SE, 22 OCT 2009 to 17 DEC 2009

LEITCHFIELD

GRAYSON CO (M2Ø) 4 SE UTC-6(-5DT) N37°23.97′ W86°15.67′

760 B **FUEL** 100LL TPA—1560 (800) NOTAM FILE LOU

RWY 02-20: H4000X60 (ASPH) S-12.5 MIRL

RWY 02: VASI(V2L)—GA 3.0°TCH 27'. Trees.

RWY 20: VASI(V2L)—GA 3.0°TCH 26'. Tree.

AIRPORT REMARKS: Attended on call. Fuel avbl on call: 270-259-3081.

Rwy 02-20 2% downslope for Rwy 20. ACTIVATE MIRL Rwy 02-20,

VASI Rwy 02 and Rwy 20 and rotating bcn—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE BWG.

BOWLING GREEN (H) VORTACW 117.9 BWG Chan

126 N36°55.73′ W86°26.61′ 015° 29.5 NM to fld. 565/02E.

I FWISPORT

HANCOCK CO-RON LEWIS FLD (KY8) 3 NE UTC-5(-4DT) N37°57.19′ W86°51.43′

ST LOUIS

ST LOUIS

1-161

411 B **FUEL** 100LL NOTAM FILE KYB **RWY 05–23:** H4000X75 (ASPH) S–16.5 MIRL

RWY 05: REIL. Trees.

RWY 23: REIL. Trees.

AIRPORT REMARKS: Unattended. ACTIVATE MIRL Rwy 05-23, REIL Rwy 05 and Rwy 23-CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

CENTRAL CITY (L) VORTAC 109.8 CCT Chan 35 N37°22.95′ W87°15.82′ 030° 39.3 NM to fld. 450/01W.

LEXINGTON

BLUE GRASS (LEX) 4 W UTC-5(-4DT) N38°02.19′ W84°36.35′

CINCINNATI H-10g. L-26g. 27e

IAP, AD

979 B S4 **FUEL** 100LL, JET A OX 1, 2, 3 LRA Class I, ARFF Index B NOTAM FILE LEX

RWY 04–22: H7003X150 (ASPH–GRVD) S–140, D–169, ST–175, DT–275 HIRL CL 0.5% up NE

RWY 04: MALSR. TDZL. PAPI(P4L)—GA 3.0°TCH 60'. Tree.

RWY 22: REIL. PAPI(P4L)-GA 3.0°TCH 60'. Tree.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 04: TORA-7003 TODA-7003 ASDA-7003 LDA-6603 RWY 22: TORA-7003 TODA-7003 ASDA-7003 LDA-6603

AIRPORT REMARKS: Attended continuously. U.S. Customs user fee arpt. AER 22 has painted mural on retaining wall before rwy thid—gives illusion of elevated bridge structure can be distracting on apch.

Flight Notification Service (ADCUS) avbl.

WEATHER DATA SOURCES: ASOS (859) 281-5700. LLWAS.

COMMUNICATIONS: ATIS 126.3 UNICOM 122.95

(R) LEXINGTON APP/DEP CON 120.75 (221°-039°) 120.15 133.4 (040°-220°)

LEXINGTON TOWER 119.1 GND CON 121.9 CLNC DEL 132.35

AIRSPACE: CLASS C svc continuous ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE LEX.

LEXINGTON (L) VORTAC 112.6 HYK Chan 73 N37°57.98'

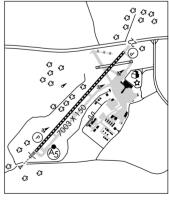
W84°28.35' 304° 7.6 NM to fld. 1039/00E.

BLAYD NDB (MHW/LOM) 242 LE N37°59.22′ W84°39.63′ 045° 3.9 NM to fld.

BRIDL NDB (LOM) 340 GN N38°07.47′ W84°30.42′ 226° 7.1 NM to fld.

ILS 110.1 I-LEX Rwy 04. Class IE. LOM BLAYD NDB. GS unusable 0.3 NM to thid.

ILS 111.75 I-GNJ Rwy 22. Class IA. LOM BRIDL NDB. LOC unusable byd 20° left and right of course.



LEXINGTON N37°57.98′ W84°28.35′ NOTAM FILE LEX.

(L) VORTAC 112.6 HYK Chan 73 304° 7.6 NM to Blue Grass. 1039/00E. RCO 122.1R 112.6T (LOUISVILLE RADIO)

CINCINNATI H-10G, L-26G, 27E

ST LOUIS

L-26G

LIBERTY-CASEY CO (I53) 7 W UTC-5(-4DT) N37°18.51′ W85°03.55′

1040 NOTAM FILE LOU

RWY 01-19: H3000X60 (ASPH)

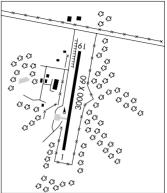
RWY 01: Trees. RWY 19: Road.

AIRPORT REMARKS: Unattended, VFR ops daigt only, Trees and elevations of land to left and right of apch to Rwy 19 penetrate transitional surface. Rwy 01 lgtd and marked radio twr 310' vicinity of rwy.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

NEW HOPE (L) VOR/DME 110.8 EWO Chan 45 N37°37.91' W85°40.55' 122° 35.3 NM to fld. 960/01E.



LONDON-CORBIN ARPT-MAGEE FLD (LOZ) 3 S UTC-5(-4DT)

1212 B S4 FUEL 100LL, JET A OX 1, 3 NOTAM FILE LOZ

RWY 06-24: H5750X150 (ASPH) S-71, D-95, ST-120, DT-151 MIRL 0.5% up SW RWY 06: REIL. PAPI(P4L)—GA 3.0°TCH 48'. Thid dsplcd 100'. Tree.

RWY 24: REIL. PAPI(P4L)—GA 4.0°TCH 73'. Thid dspicd 550'. Tower.

AIRPORT REMARKS: Attended dawn-dusk. Small flocks of migrating birds on and invof arpt. PAEW Rwy 06-24 750' north. ACTIVATE MIRL Rwy 06-24 and REIL Rwy 06 and 24-CTAF.

WEATHER DATA SOURCES: ASOS 119.075 (606) 877-1699.

HIWAS 116.1 LOZ.

COMMUNICATIONS: CTAF 123.0 UNICOM 123.0

RCO 122.65 122.2 122.1R 116.1T (LOUISVILLE RADIO)

(R) INDIANAPOLIS CENTER APP/DEP CON 124.625

RADIO AIDS TO NAVIGATION: NOTAM FILE LOZ.

(L) VORTAC 116.1 LOZ Chan 108 N37°01.99' W84°06.60' 029° 3.6 NM to fld. 1245/03W. HIWAS.

VOR portion unusable 012°-060° byd 7 NM blo 10,500'.

ILS/DME 110.9 I-LOZ Chan 46 Rwv 06.

N37°05.21′ W84°04.64′ CINCINNATI H-9A, L-26G ΙΔΡ , •0,

03 03 €3 **3** a a a ັ⊲₃

LOUISVILLE N38°06.21′ W85°34.65′ NOTAM FILE LOU.

(H) VORTAC 114.8 IIU Chan 95 330° 8.5 NM to Bowman Fld. 720/01E. VOR portion unusable 285°-093° blo 10,000'.

RCO 122.45 122.2 122.1R (LOUISVILLE RADIO)

ST LOUIS H-5E, 10F, L-26F, 27E

LOUISVILLE

BOWMAN FLD (LOU) 5 SE UTC-5(-4DT) N38°13.68′ W85°39.82′ 546 B S4 **FUEL** 100LL, JET A 0X 1, 2, 3, 4 LRA NOTAM FILE LOU

RWY 06-24: H4326X75 (ASPH) S-30 MIRL 0.3% up SW.

RWY 06: PAPI(P2L)—GA 4.0° TCH 48'. Thid dspicd 813'. Trees. RWY 24: REIL. PAPI(P2L)—GA 3.8° TCH 42'. Thid dspicd 307'. Trees.

RWY 15-33: H3579X75 (ASPH) S-30 MIRL 0.6% up NW. RWY 15: VASI(V4L)—GA 3.0°TCH 31'. Thid dsplcd 206'. Tree. RWY 33: REIL. VASI(V4L)—GA 3.0°TCH 42'. Thid dsplcd 341'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06: TORA-4047 TODA-4357 ASDA-4316 LDA-3469 RWY 24: TORA-3509 TODA-4357 ASDA-4165 LDA-3856 RWY 15: TORA-3238 TODA-3579 ASDA-3579 LDA-3373 RWY 33: TORA-3373 TODA-3579 ASDA-3466 LDA-3373

AIRPORT REMARKS: Attended 1100–0300Z‡. Be alert for birds on and invof arpt during dalgt hrs. Stage 3 compliance required for turbojet acft. PPR for all acft over 30,000 lbs GWT. Call arpt manager 502–368–6524 for PPR. When twr clsd training opr prohibited. ACTIVATE MIRL Rwy 06–24 and Rwy 15–33—CTAF. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Terminal Area Graphic Notice.

WEATHER DATA SOURCES: ASOS (502) 473-0693.

COMMUNICATIONS: CTAF 119.5 ATIS 112.2 UNICOM 122.95

LOUISVILLE RCO 122.45 122.2 122.1R (LOUISVILLE RADIO)

(R) LOUISVILLE APP/DEP CON 132.075(E) 123.675(W)

TOWER 119.5 (1200-0300Z‡) GND CON 121.8 CLNC DEL 118.9

AIRSPACE: CLASS D svc 1200-0300Z‡ other times CLASS E.

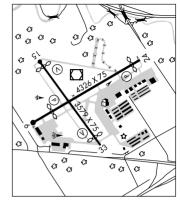
RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

(T) VOR/DME 112.2 BQM Chan 59 N38°13.81′ W85°39.89′ at fld. 540/01W. VOR portion unusable 073°-063° blo 4000′.

LAANG NDB (LOM) 414 LK N38°08.70′ W85°38.00′ 347° 5.2 NM fld. NOTAM FILE SDF.

COMM/NAV/WEATHER REMARKS: Ctc Louisville Radio for airport advisory service on 119.5 when twr is clsd.

ST LOUIS L-27E IAP, AD



LOUISVILLE INTL-STANDIFORD FLD (SDF) 4 S UTC-5(-4DT) N38°10.45′ W85°44.19′ 501 B S4 FUEL 100LL, JET A OX 4 LRA Class I, ARFF Index C NOTAM FILE SDF

RWY 17R-35L: H11890X150 (CONC-GRVD) S-75, D-207, DT-360, DDT-850

H-5E, 10F, L-27E

PCN 70 R/C/W/T HIRL CL

RWY 17R: MALSR. TDZL. PAPI(P4L)-GA 3.0° TCH 75'.

Thid dsplcd 850'.

RWY 35L: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 75'. Thid dspicd 1040'.

RWY 17L-35R: H8579X150 (CONC-GRVD) S-75, D-207, DT-360,

DDT-850 PCN 70 R/C/W/T HIRL CL

RWY 17L: MALSR. TDZL PAPI(P4L)-GA 3.0° TCH 75'.

Thid dsplcd 329'. 0.3% down.

RWY 35R: ALSF2. TDZL PAPI(P4R)-GA 3.0° TCH 75'.

Thid dsplcd 450'. 0.3% up.

RWY 11–29: H7250X150 (CONC–WC) S–75, D–170, DT–360, DDT–850 PCN 59 R/C/W/T HIRL

RWY 11: Bldg. RWY 29: MALSR.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 17R: TORA-11095 TODA-11095 ASDA-11095 LDA-10000

RWY 35L: TORA-11290 TODA-11290 ASDA-11290 LDA-10000 RWY 17L: TORA-8579 TODA-8579 ASDA-8129 LDA-7800

RWY 35R: TORA-8579 TODA-8579 ASDA-8250 LDA-7800

AIRPORT REMARKS: Attended continuously. Continuous construction on arpt, be alert for frequent rwy and twy closures. Birds on and invof arpt. ASDE–X Surveillance System in use: Pilots should opr transponders with Mode C on all twys and rwys. Taxi in position and hold waiver in effect from 08302‡ until SR at the intersection of Rwy 17R at Twy B and at the intersection of Rwy 35L at Twy B. These rwys will be used for departures only when exercising the provisions of this waiver. Std dep point on Rwy 17R is at Twy B. Pilots must req use of Rwy 17R extension. Declared distance for tkf at Twy B ASDA/TORA/TODA 10,245′. Std dep point on Rwy 35L is at Twy B. Pilots must req use of Rwy 35L extension. Declared distance for tkf at Twy B ASDA/TORA/TODA 10,250′. Rwy 17L RVR avbl touchdown, midfield and rollout. Rwy 35L RVR avbl touchdown, midfield, rollout. Rwy 35R RVR avbl touchdown, midfield and rollout. Flight Notification Service (ADCUS) avbl.

WEATHER DATA SOURCES: ASOS (502) 367-1492. LLWAS.

COMMUNICATIONS: D-ATIS 118.725 UNICOM 122.95

(R) APP CON 134.15 132.075(E) 123.675(W)

R DEP CON 132.075(E) 123.675(W)

TOWER 124.2 GND CON 121.7 CLNC DEL 126.1

AIRSPACE: CLASS C svc continuous ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

(H) VORTAC 114.8 IIU Chan 95 N38°06.21′ W85°34.65′ 298° 8.6 NM to fld. 720/01E.

LAANG NDB (LOM) 414 LK N38°08.69′ W85°38.00′ 293° 5.2 NM to fld. NOTAM FILE SDF.

ILS/DME 110.55 I-JJM Chan 42(Y) Rwy 35R. Class IIIE.

ILS 109.1 I-LKS Rwy 29. LOM LAANG NDB. LOC only. (LOC BC unusable).

ILS/DME 109.35 I-RLI Chan 30(Y) Rwy 35L. Class IIIE.

ILS/DME 111.95 I-PKI Chan 56(Y) Rwy 17L. Class IE.

ILS/DME 110.3 I-SNU Chan 40 Rwy 17R.

MADISON (See RICHMOND)

MADISONVILLE MUNI (210) 5 NE UTC-6(-5DT) N37°21.36′ W87°23.89′

439 B FUEL 100, JET A+ OX 3 NOTAM FILE LOU

CINCINNATI H-5E, L-16I ΙΔΡ

RWY 05-23: H6050X100 (ASPH) S-75, D-130 HIRL 0.5% up SW

RWY 05: REIL. PAPI(P4L)-GA 3.0°TCH 33'. Trees.

RWY 23: REIL. PAPI(P4L)-GA 3.0°TCH 45'.

AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z‡, Sat-Sun; and holidays 1400-2300Z‡. PAPI Rwy 05 and Rwy 23 on continuous. HIRL Rwy 05-23 preset low ints, to increase ints and ACTIVATE REIL Rwy 05 and Rwy 23-CTAF.

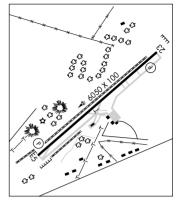
WEATHER DATA SOURCES: AWOS-3 126.475 (270) 821-4554.

COMMUNICATIONS: CTAF/UNICOM 122.7

R EVANSVILLE APP/DEP CON 126.4 (1200-0500Z‡) CLNC DEL 120.1

R INDIANAPOLIS CENTER APP/DEP CON 128.3 (0500-1200Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

CENTRAL CITY (L) VORTAC 109.8 CCT Chan 35 N37°22.95' W87°15.82' 257° 6.6 NM to fld. 450/01W.



MARION-CRITTENDEN CO (5M9) 1 SW UTC-6(-5DT) N37°20.18′ W88°06.58′

ST LOUIS L-161

IAP

B FUEL 100LL, JET A1+ NOTAM FILE LOU 639 RWY 07-25: H4400X75 (ASPH) MIRL 0.5% up W

RWY 07: REIL. PAPI(P4L)—GA 3.0° TCH 32'. Trees. RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 33'. AIRPORT REMARKS: Unattended. Ctc arpt manager for current rwy conditions 270-965-4242. ACTIVATE MIRL Rwy 07-25, REIL Rwy 07 and Rwy 25, PAPI Rwy 07 and Rwy 25-CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE PAH.

CUNNINGHAM (L) VORTACW 113.1 CNG Chan 78 N37°00.52′ W88°50.22′ 057° 40.0 NM to fld. 480/03E.

MAYFIELD GRAVES CO (M25) 3 NE UTC-6(-5DT) N36°46.18′ W88°35.08′

ST LOUIS H-6J, L-16I IAP

523 B FUEL 100LL, JET A NOTAM FILE LOU RWY 18-36: H5001X100 (ASPH) S-30 MIRL

RWY 18: REIL. PAPI(P4L)-GA 3.0° TCH 32'.

RWY 36: REIL. PAPI(P4L)-GA 3.0° TCH 42'. Trees.

AIRPORT REMARKS: Attended 1400Z‡-dusk. ACTIVATE MIRL Rwy 18-36, REIL and PAPI Rwys 18 and 36-CTAF.

WEATHER DATA SOURCES: AWOS-3 120.625 (270) 247-2094.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) MEMPHIS CENTER APP/DEP CON 133.65

RADIO AIDS TO NAVIGATION: NOTAM FILE PAH.

CUNNINGHAM (L) VORTACW 113.1 CNG Chan 78 N37°00.52' W88°50.22' 137° 18.8 NM to fld. 480/03E.

NDB (MHW) 401 GGK N36°41.46′ W88°35.54′ 005° 4.6 NM to fld. NOTAM FILE LOU. Unmonitored.

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McCREARY CO (See PINE KNOT)

LONDON (L) VORTAC 116.1 LOZ Chan 108 N37°01.99′ W84°06.60′ 148° 31 NM to fld. 1245/03W. HIWAS.

MONTICELLO

WAYNE CO (EKQ) 2 N UTC-5(-4DT) N36°51.32′ W84°51.37′
963 B S4 FUEL 100LL, JET A NOTAM FILE LOU
RWY 03-21: H4000X75 (ASPH) S-12.5 MIRL
RWY 03: REIL. PAPI(P4L)—GA 3.0° TCH 40′. Trees.

RWY 21: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Tree.

AIRPORT REMARKS: Attended 1100-2300Z‡. REIL Rwy 03 OTS indef.

MIRL Rwy 03-21 preset low ints; to increase ints

ACTIVATE—CTAF. PAPI Rwy 03 and Rwy 21, REIL Rwy 21 ACTIVATE—CTAF.

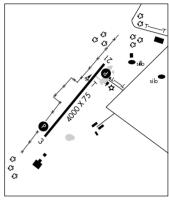
WEATHER DATA SOURCES: ASOS 118.825 (606)348-0862.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) INDIANAPOLIS CENTER APP/DEP CON 124.625

RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

LIVINGSTON (L) VORTAC 108.4 LVT Chan 21 N36°35.07′ W85°10.00′ 045° 22.1 NM to fld. 1020/02W.



CINCINNATI

CINCINNATI

L-25A

IAP

MOREHEAD—ROWAN CO CLYDE A. THOMAS RGNL (M97) 7 NW UTC-5(-4DT)
N38°12.90′ W83°35.26′

H-10G, L-26G

RWY 02-20: H5500X100 (ASPH) S-30 MIRL

RWY 02: REIL. PAPI (P4L)—GA 3.0° TCH 30'. RWY 20: REIL. PAPI (P4L)—GA 3.0° TCH 33'.

AIRPORT REMARKS: Unattended. ACTIVATE MIRL Rwy 02-20 and PAPI Rwy 02 and Rwy 20-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

1028 B NOTAM FILE LOU

INDIANAPOLIS CENTER APP/DEP CON 124.225

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

NEWCOME (L) VORTAC 110.4 ECB Chan 41 N38°09.50′ W82°54.60′ 278° 32.2 NM to fld. 1070/02W.

MOUNT STERLING-MONTGOMERY CO (IOB)

1019 B S4 FUEL 100LL, JET A NOTAM FILE LOU S-20 MIRL 0.7% up SW RWY 03-21: H5002X75 (ASPH)

RWY 03: REIL. PAPI(P4L)-GA 4.0°. Trees.

RWY 21: REIL. PAPI(P2L)-GA 3.0° TCH 30'. Tree.

AIRPORT REMARKS: Attended 1300-0000Z‡. For svc after hrs call 859-585-0844 or 859-498-6875. Self svc avbl 24 hrs. ACTIVATE MIRL Rwy 03-21, REIL Rwys 03 and 21 and PAPI Rwy 03 and Rwy 21-CTAF.

WEATHER DATA SOURCES: AWOS-3 120,675 (859) 498-7001. COMMUNICATIONS: CTAF/UNICOM 122.8

R LEXINGTON APP/DEP CON 120.15

RADIO AIDS TO NAVIGATION: NOTAM FILE LEX.

LEXINGTON (L) VORTAC 112.6 HYK Chan 73 N37°57.98' W84°28.35' 077° 24 NM to fld. 1039/00E.

NDB (MHW) 210 IOB N38°03.60′ W83°58.89′ at fld. NOTAM FILE LOU.

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ST LOUIS

H-10G, L-26G, 27E

2 W UTC-5(-4DT) N38°03.49′ W83°58.78′

MIIHLENBERG CO (See GREENVILLE)

MUREY N36°43.24′ W88°17.40′ NOTAM FILE LOU.

NDB (LOM) 368 EU 231° 5.1 NM to Kyle-Oakey fld.

MIIRRAY

KYLE-OAKLEY FLD (CEY) 4 NW UTC-6(-5DT) N36°39.88′ W88°22.37′

577 B S4 FUEL 100LL, JET A, MOGAS OX 1 NOTAM FILE LOU

RWY 05-23: H6203X100 (ASPH-AFSC) S-30 MIRL

RWY 05: REIL. PAPI(P4L)-GA 3.0°TCH 27'. Trees. RWY 23: REIL. PAPI(P4L)-GA 3.0°TCH 30'.

AIRPORT REMARKS: Attended Mon-Sat 1400-2300Z‡, Sun

1900-2300Z‡. For svc ngts call 270-489-2414. ACTIVATE MIRL Rwy 05-23; PAPI and REIL Rwys 05 and 23-CTAF dusk-dawn only.

WEATHER DATA SOURCES: AWOS-3 119.975 (270) 489-2424.

COMMUNICATIONS: CTAF/UNICOM 122.7

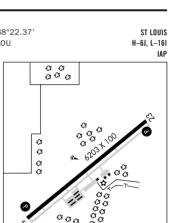
R MEMPHIS CENTER APP/DEP CON 133.65

RADIO AIDS TO NAVIGATION: NOTAM FILE PAH.

CUNNINGHAM (L) VORTACW 113.1 CNG Chan 78 N37°00.52' W88°50.22' 130° 30.4 NM to fld. 480/03E.

MUREY NDB (LOM) 368 EU N36°43.24′ W88°17.40′ 231° 5 2 NM to fld. NOTAM FILE LOU.

ILS 110.5 I-EUY Rwy 23. LOM MUREY NDB. LOC only.



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MYSTIC N37°53.64′ W86°14.67′ NOTAM FILE LOU. (L) VOR 108.2 MYS 087° 13.0 NM to Godman AAF.

ST LOUIS H-5E. 10F, L-16J

CINCINNATI

L-26H

NEWCOMBE N38°09.50' W82°54.60' NOTAM FILE LOU.

(L) VORTAC 110.4 ECB Chan 41 299° 12.4 NM to Olive Hill-Sellers' Fld. 1070/02W.

RCO 122.1R 110.4T (LOUISVILLE RADIO)

ST LOUIS L-16J. 26F

NEW HOPE N37°37.91′ W85°40.55′ NOTAM FILE LOU.

(L) VOR/DME 110.8 EWO Chan 45 036° 13.8 NM to Samuels Fld. 960/01E. RCO 122.1R 110.8T (LOUISVILLE RADIO)

ST LOUIS

NOORA N36°52.80′ W86°28.90′ NOTAM FILE BWG

NDB (LDM) 236 BW 032° 5.9 NM to Bowling Green-Warren Co Rgnl. LOM unusable byd 10 NM.

OHIO CO (See HARTFORD)

OLIVE HILL-SELLERS' FLD (212) 3 SE UTC-5(-4DT) N38°15.22′ W83°08.58′

CINCINNATI

ST LOUIS

IAP. AD

H-5E, L-16I

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1016 NOTAM FILE LOU

RWY 02-20: H2500X50 (ASPH)

RWY 02: Trees. RWY 20: Trees.

AIRPORT REMARKS: Unattended. Rwy 02–20 has widespread severe cracking with raveling and deterioration.

COMMUNICATIONS: CTAF 122.9

OWENSBORO-DAVIESS CO (OWB) 3 SW UTC-6(-5DT) N37°44.33′ W87°10.01′

407 B S4 FUEL 100LL, JET A OX 4 LRA Class I, ARFF Index B NOTAM FILE OWB

407 B S4 FUEL 100LL, JETA OX 4 LRA Class I, ARFF INDEX B NOTAM FILE OWB RWY 18-36: H8000X150 (CONC) S-75. D-150. ST-175. DT-200 HIRL

81

36

RWY 18: REIL, VASI(V4L)-GA 3.0°TCH 52'.

RWY 36: MALSR. VASI(V4L)—GA 3.0°TCH 56'. Thid dsplcd 1500'.

P-IIIIE.

RWY 05-23: H5000X100 (ASPH-CONC) S-40, D-40,

DT-40 MIRL

RWY 05: REIL. PAPI(P2L)-GA 3.0° TCH 45'.

RWY 23: REIL. PAPI(P2L)-GA 3.0° TCH 45'.

RUNWAY DECLARED DISTANCE INFORMATION

 RWY 05:
 TORA-5000
 TODA-5000
 ASDA-5000
 LDA-5000

 RWY 18:
 TORA-7000
 TODA-7000
 ASDA-8000
 LDA-8000

 RWY 23:
 TORA-5000
 TODA-5000
 ASDA-8000
 LDA-5000

 RWY 36:
 TORA-8000
 TODA-8000
 ASDA-8000
 LDA-6500

AIRPORT REMARKS: Attended continuously. Large flocks of birds on and invof arpt. Coyotes on and invof all rwys and twys. PPR 24 hours for unscheduled air carrier ops with more than 30 passenger seats call airport manager 270–685–4179. When twr clsd ACTIVATE HIRL Rwy 18–36, MIRL Rwy 05–23, MALSR Rwy 36, REIL Rwy 05, REIL Rwy 23, REIL Rwy 18, PAPI Rwy 05 and Rwy 23, VASI Rwy 36, twy and windcone Igts—CTAF.

 $\textbf{WEATHER DATA SOURCES:} \ ASOS \ 124.325 \ (270) \ 683-3228.$

COMMUNICATIONS: CTAF 120.7 UNICOM 122.95

RCO 122.1R 108.6T (LOUISVILLE RADIO)

- R EVANSVILLE APP/DEP CON 126.4 (1200-0500Z‡)
- R INDIANAPOLIS CENTER APP/DEP CON 128.3 (0500-1200Z‡)

TOWER 120.7 (1200-0400Z‡) GND CON 121.7

AIRSPACE: CLASS D svc 1200-0400Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE OWB.

(T) VOR/DME 108.6 OWB Chan 23 N37°44.61' W87°09.96' at fld. 401/01E.

HIGUY NDB (LOM) 341 OW N37°38.14′ W87°09.73′ 359° 6.2 NM to fld.

ILS 111.5 I-OWB Rwy 36. Class IE. LOM HIGUY NDB.

PADUCAH N37°03.65′ W88°46.43′

RCO 122.5 122.2 (LOUISVILLE RADIO) at Barkley Rgnl.

ST LOUIS

L-16H

226 KENTIICKY

PADUCAH

BARKLEY RGNL (PAH) 12 W UTC-6(-5DT) N37°03.62′ W88°46.38′

410 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE PAH

RWY 04-22: H6499X150 (ASPH-GRVD) S-76, D-99, ST-118, DT-170 HIRI 0.5% up SW

RWY 04: MALSR. Pole.

RWY 22: REIL, VASI(V4L)-GA 3.0° TCH 59', Trees.

RWY 14-32: H5500X150 (ASPH-GRVD) S-75, D-100, DT-170 MIRL 0.3% up SE

RWY 14: Thid dsplcd 100' Tree.

RWY 32: REIL, PAPI(P4L), Trees.

RUNWAY DECLARED DISTANCE INFORMATION

TORA-6499 TODA-6499 ASDA-6499 IDA-6499 TORA-6499 TODA_6499 ASDA_6499 RWY 14-TORA-5500 TODA-5500 ASDA-5500 LDA-5400

RWY 32-TORA-5500 TODA-5500 ASDA-5400 LDA-5400

AIRPORT REMARKS: Attended 1130-0500Z±, CLOSED to unscheduled air carrier opr with more than 30 passenger seats except 24

hours PPR-call arpt manager 270-744-0521. National Weather Service on arpt call 270-744-6440. Rwy 04-22 surface condition not monitored 0400-1000Z‡. When twr clsd ACTIVATE HIRL Rwy 04-22, MIRL Rwy 14-32, MALSR Rwy 04, PAPI Rwy 32, REIL Rwy 22 and Rwy 32, Twy Igts and Igtd windcone-CTAF.

WEATHER DATA SOURCES: ASOS 118.375 (270) 744-6719.

COMMUNICATIONS: CTAF 119.6 UNICOM 123.0

PADUCAH RCO 122.5 122.2 (LOUISVILLE RADIO)

R MEMPHIS CENTER APP/DEP CON 133.65

PADUCAH TOWER 119.6 (1200-0500Z‡) GND CON 121 7

AIRSPACE: CLASS D svc 1200-0500Z tother times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE PAH.

Chan 78 N37°00.52′ W88°50.21′ 042° 4.4 NM to fld. 480/03E. CUNNINGHAM (L) VORTACW 113.1 CNG BELLGRADE NDB (MHW) 254 BDD N37°08.73′ W88°40.23′ 224° 7.1 NM to fld.

ILS 108.5 I-PAH Rwy 04.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

PIKE CO-HATCHER FLD (See PIKEVILLE)

PIKFVIIIF

PIKE CO-HATCHER FLD (PBX) 6 NW UTC-5(-4DT) N37°33.71′ W82°33.98′

1473 B S4 FUEL 100LL, JET A NOTAM FILE LOU

RWY 09-27: H5350X100 (ASPH) S-30 MIRL 0.3% up E

RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 33'. Thid dsplcd 350'. Trees.

RWY 27: REIL. PAPI(P4L)—GA 3.0° TCH 47'. Thid dsplcd 350'. Fence.

RWY 02-20: H3600X75 (ASPH) S-12 MIRL 0.4% up S

RWY 20: REIL. VASI(V2L)—GA 3.0°TCH 29'. Trees. RWY 02: REIL. VASI(V2L)—GA 3.0°TCH 26'.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 09: TORA-5350 TODA-5350 ASDA-5000 LDA-4650 RWY 27: TORA-5350 TODA-5350 ASDA-5000 LDA-4650

AIRPORT REMARKS: Attended Mon-Fri 1300Z‡-dusk, Sat-Sun 1400Z‡-dusk. For after hrs svc call 606-437-9548. Rwy 2-20 CLOSED indef. REIL and VASI Rwy 20 OTS indef. Rwy 02-20 MIRL OTS indef. Rwy 02-20 markings faded and obscured. ACTIVATE MIRL Rwys 02-20 and 09-27: REIL Rwys 02: 20: 09 and 27: VASI Rwys 02 and

WEATHER DATA SOURCES: AWOS-3 121.225 (606) 437-6701.

20; PAPI Rwys 09 and 27-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

R INDIANAPOLIS CENTER APP/DEP CON 126.575

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

HAZARD (L) VOR/DME 111.2 AZQ Chan 49 N37°23.48′ W83°15.78′ 077° 34.8 NM to fld. 1247/04W. ILS/DME 109.7 I-PBX Chan 34 Rwy 27.

PIKEVILLE N37°38.27′ W82°34.42′ RCO 122.05 (LOUISVILLE RADIO)

CINCINNATI L-26H

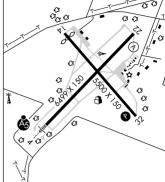
H-6J. L-16H IAP, AD 00

CINCINNATI

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H-10G, 12G, L-26H

211101 T2



PINE KNOT

McCREARY CO (18I) 3 NW UTC-5(-4DT) N36°41.72′ W84°23.49′

1370 B FUEL 100LL NOTAM FILE LOU

RWY 04-22: H3000X75 (ASPH) S-8 MIRL

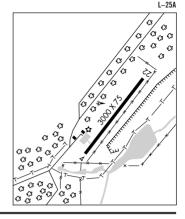
RWY 04: REIL. Trees. Rwy 22: REIL.

AIRPORT REMARKS: Unattended. 24 hr credit card svc avbl for fuel.

ACTIVATE MIRL Rwy 04-22 and REIL Rwy 04 and Rwy 22-CTAF. COMMUNICATIONS: CTAF/UNICOM 123.05

RADIO AIDS TO NAVIGATION: NOTAM FILE LOZ.

LONDON (L) VORTAC 116.1 LOZ Chan 108 N37°01.99' W84°06.60' 217° 24.4 NM to fld. 1245/03W. HIWAS.



PRESTONSBURG

BIG SANDY RGNL (K22) 9NE UTC-5(-4DT) N37°45.06′ W82°38.20′

CINCINNATI

1221 B FUEL 100LL, JET A1+ NOTAM FILE LOU

H-10G, 12G, L-26H

CINCINNATI

RWY 03-21: H5000X100 (ASPH) S-30 MIRL 1.0% up NE RWY 03: REIL. PAPI(P4L)—GA 4.0° TCH 28'. Pole. RWY 21: REIL. PAPI(P4L)—GA 3.0° TCH 28'.

AIRPORT REMARKS: Attended 1300Z±-Dusk. Deer and birds on and invof arot. ACTIVATE MIRL Rwv 03-21 and REIL Rwy 03 and Rwy 21-CTAF.

WEATHER DATA SOURCES: AWOS-3 120.175 (606) 298-4143.

COMMUNICATIONS: CTAF/UNICOM 123.05

(R) HUNTINGTON APP/DEP 119.75

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

NEWCOMBE (L) VORTAC 110.4 ECB Chan 41 N38°09.50′ W82°54.60′ 154° 27.7 NM to fld. 1070/02W.

PRINCETON-CALDWELL CO (2MØ) 2 NE UTC-6(-5DT) N37°06.91′ W87°51.42′

ST LOUIS L-161

584 B NOTAM FILE LOU

RWY 05-23: H4099X75 (ASPH) S-12 MIRL

RWY 23. Trees RWY 05: Berm

AIRPORT REMARKS: Unattended. ACTIVATE MIRL Rwy 05-23-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122 8

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

CENTRAL CITY (L) VORTAC 109.8 CCT Chan 35 N37°22.95′ W87°15.82′ 242° 32.6 NM to fld. 450/01W.

PROVIDENCE-WEBSTER CO (8M9) 2 NE UTC-6(-5DT) N37°25.49′ W87°44.17′

ST LOUIS

393 B NOTAM FILE LOU

RWY 16-34: H3800X70 (ASPH) S-7.5 MIRL

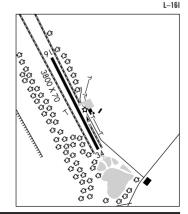
RWY 16: Trees. RWY 34: Trees.

AIRPORT REMARKS: Unattended, Ultralight activity on and invof arpt. ACTIVATE MIRL Rwy 16-34-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

CENTRAL CITY (L) VORTAC 109.8 CCT Chan 35 N37°22.95' W87°15.82' 278° 22.7 NM to fld. 450/01W.



RICHMOND

MADISON (139) 8 SW UTC-5(-4DT) N37°37.85′ W84°19.94′ 1002 B FUEL 100LL, JET A1+ NOTAM FILE LOU

RWY 18-36: H4500X100 (ASPH) S-12.5 MIRL 0.7% up S RWY 18: REIL. PAPI(P4L)—GA 3.0° TCH 22'. Thid dsplcd 90'.

RWY 36: REIL. PAPI(P4L)-GA 3.0° TCH 24'. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡, Sun

1700-2200Z‡. Rwy 18-36 cracking with water/sediment weeping on both sides of rwy sfc. ACTIVATE MIRL. PAPI and REIL Rwy 18-36-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.625 (859) 985-5969.

COMMUNICATIONS: CTAF/UNICOM 122.8

MADISON RCO 122.3 (LOUISVILLE RADIO) R LEXINGTON APP/DEP CON 120.15

RADIO AIDS TO NAVIGATION: NOTAM FILE LEX.

LEXINGTON (L) VORTAC 112.6 HYK Chan 73 N37°57.98' W84°28.35' 162° 21.2 NM to fld. 1039/00E.

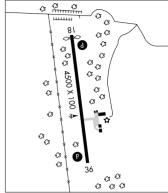
CINCINNATI L-26G IAP

ST LOUIS

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L-161



ROUGH RIVER STATE PARK (See FALLS-OF-ROUGH)

RUSSELL CO (See JAMESTOWN)

RUSSELLVILLE-LOGAN CO (4M7) 4 SE UTC-6(-5DT) N36°48.00′ W86°48.61′

689 B S2 FUEL 100LL, JET A NOTAM FILE LOU

RWY 06-24: H3999X75(ASPH) S-12.5 MIRL 0.9% up SW

RWY 06: REIL, VASI(V2L)-GA 3.0° TCH 25', Trees. RWY 24: REIL, VASI(V2L)-GA 3.0° TCH 25', Trees.

AIRPORT REMARKS: Attended dalgt hours. VASIs opr dusk-dawn. Rwy 06 and 24 REIL OTS indef. ACTIVATE VASI Rwvs 06 and 24-CTAF.

Dusk-dawn ACTIVATE MIRL Rwv 06-24-CTAF.

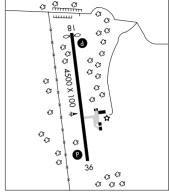
COMMUNICATIONS: CTAF/UNICOM 122.7

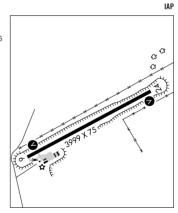
(R) MEMPHIS CENTER APP/DEP CON 133 85

RADIO AIDS TO NAVIGATIONS: NOTAM FILE BWG.

BOWLING GREEN (H) VORTACW 117.9 BWG Chan 126 N36°55.73′ W86°26.61′ 245° 19.3 NM to fld.

565/02E.





SAMUELS FLD (See BARDSTOWN)

SCREAMING EAGLE N36°40.59′ W87°29.51′ NOTAM FILE LOU.

(L) TACAN Chan 96 HXW (114.9) at Campbell AAF. 572/1W. TACAN unusable:

045°-065° bvd 21 NM

066°-044°

3

SOMERSET

LAKE CUMBERLAND RGNL (SME) 3 S UTC-5(-4DT) N37°03.22′ W84°36.94′

927 B FUEL 100LL, JET A Class II, ARFF Index A NOTAM FILE SME RWY 05-23: H5800X100 (ASPH) S-40, D-70, DT-125 MIRI

CINCINNATI H-9A. L-26G

RWY 05: REIL. PAPI(P4R)-GA 3.0° TCH 44'. Thid dspicd 513'.

Ground

RWY 23: REIL. PAPI(P4L)-GA 4.0° TCH 41'. Thid dsplcd 300'.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-5800 TODA-5800 ASDA-5800 LDA-5287 TORA-5800 TODA-5800 ASDA-5800 LDA-5500

AIRPORT REMARKS: Attended 1200Z‡-dusk, Index A ARFF equip avbl only during scheduled air carrier ops. CLOSED to unscheduled air carrier ops with more than 30 passenger seats except 24 hr PPR call arpt manager 606-678-4554.

WEATHER DATA SOURCES: AWOS-3 120,050 (606) 679-5710.

COMMUNICATIONS: CTAF/UNICOM 122.8

SOMERSET RCO 122.55 (LOUISVILLE RADIO)

R INDIANAPOLIS CENTER APP/DEP CON 124.625

RADIO AIDS TO NAVIGATION: NOTAM FILE LOZ.

LONDON (L) VORTAC 116.1 LOZ Chan 108 N37°01.99' 276° 24.3 NM to fld. 1245/03W. HIWAS. W84°06 60'

CUMBERLAND RIVER NDB (MHW) 388 CDX N36°59.77'

W84°40.88' 048° 4.7 NM to fld. NOTAM FILE LOU. NDB unmonitored.

II S/NMF 109 3 Chan 30 Rwy 05. GS unusable byd 3° left of centerline and byd 8° right of I-SME centerline all distances and altitudes. Autopilot coupled opch blo 1,620 ft not authorized.

SPRINGFIELD N37°38.08′ W85°14.19′ NOTAM FILE LOU. NDB (MHW) 429 IKY at Lebanon-Springfield.

ST LOUIS L-26F

SPRINGFIELD

Trees

LEBANON-SPRINGFIELD (612) 3 S UTC-5(-4DT) N37°38.01′ W85°14.51′

866 B FUEL 100LL, JET A NOTAM FILE LOU RWY 11-29: H5000X75 (ASPH) S-10 MIRL 0.8% up E

RWY 11: REIL. PAPI(P4L)-GA 3.0° TCH 35'. Thid dsplcd 125'.

Trees RWY 29: REIL. PAPI(P4L)—GA 3.3° TCH 27'. Thid dspicd 200'.

AIRPORT REMARKS: Attended Mon-Sat 1400-2200Z‡, Sun

1800-2200Z‡. Ultralight activity invof arpt. ACTIVATE MIRL Rwy 11-29, REIL Rwy 11 and Rwy 29 and PAPI Rwy 11 and Rwy 29-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.725 (866) 754-5623. COMMUNICATIONS: CTAF/UNICOM 122.8

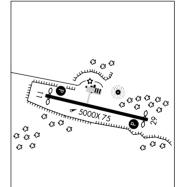
R INDIANAPOLIS CENTER APP/DEP CON 124.625

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU.

NEW HOPE (L) VOR/DME 110.8 EWO Chan 45 N37°37.91' W85°40.55' 089° 20.7 NM to fld. 960/01E.

SPRINGFIELD NDB (MHW) 429 IKY N37°38.08′ W85°14.19′





STANTON (I5Ø) 1 E UTC-5(-4DT) N37°51.00′ W83°50.75′

651 FUEL 100LL NOTAM FILE LOU

RWY 06-24: H3000X70 (ASPH) S-8 MIRL

RWY 06: REIL. Thid dspicd 220'. Trees.

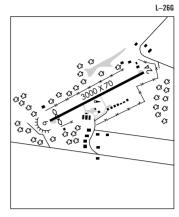
RWY 24: REIL. Road.

AIRPORT REMARKS: Attended continuously. Glider and ultralight activity on weekends. ACTIVATE MIRL Rwy 06–24 and REIL Rwy 06 and Rwy 24—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE LEX.

LEXINGTON (L) VORTAC 112.6 HYK Chan 73 N37°57.98′ W84°28.35′ 103° 30.6 NM to fld. 1039/00E.



CINCINNATI

ST LOUIS

IAP

H-5E, L-16I

STUART POWELL FLD (See DANVILLE)

STURGIS MUNI (TWT) 2 E UTC-6(-5DT) N37°32.51′ W87°57.26′

372 B FUEL 100LL, JET A1+ NOTAM FILE LOU

RWY 18-36: H5000X150 (ASPH) S-30, D-50 MIR

RWY 18: REIL. PAPI(P2L)—GA 3.5° TCH 30^{\prime} .

RWY 36: REIL. PAPI(P2L)—GA 3.0° TCH 44'. Trees.

AIRPORT REMARKS: Attended 1300–2300Z‡. For fuel after 2200Z‡ call 270–836–6036. ACTIVATE MIRL Rwy 18–36, PAPI Rwy 18 and Rwy 36 and REIL Rwy 18 and Rwy 36—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.775 (270) 333-2967.

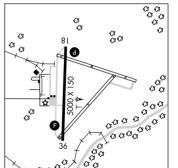
COMMUNICATIONS: CTAF/UNICOM 122.8

EVANSVILLE APP/DEP CON 126.4 (1200-0500Z‡)

MEMPHIS CENTER APP/DEP CON 133.65 (0500-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE HUF.

POCKET CITY (H) VORTACW 113.3 PXV Chan 80 N37°55.70′ W87°45.74′ 199° 24.9 NM to fld. 384/03E. HIWAS. TRADEWATER NDB (MHW) 276 TWT N37°28.00′ W87°56.82′ 356° 4.5 NM to fld. NOTAM FILE LOU. (Unmonitored 0000–1200Z‡).



TAYLOR CO (See CAMPBELLSVILLE)

TOMPKINSVILLE-MONROE CO (TZV) 2 NE UTC-6(-5DT) N36°43.74′ W85°39.14′

1036 S2 B FUEL 100LL NOTAM FILE LOU

RWY 04-22: H4000X75(ASPH) S-12 MIRL

RWY 04: REIL. VASI(V2L)—GA 3.0°TCH 35'. Pole.

RWY 22: REIL. VASI(V2L)-GA 3.0°TCH 42'. Tree.

AIRPORT REMARKS: Unattended. Rwy 04 and 22 REIL OTS indef.

ACTIVATE MIRL Rwy 04–22; REIL and VASI Rwy 04 and Rwy 22—CTAF.

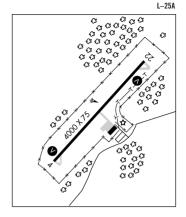
COMMUNICATIONS: CTAF/UNICOM 122.8

MEMPHIS CENTER APP/DEP CON 132.1

RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

 $\textbf{LIVINGSTON (L) VORTAC } \ 108.4 \quad \ \ \text{LVT} \quad \ \ \text{Chan } \ 21 \quad \ \ \text{N} \ 36^{\circ} \ 35.07'$

W85°10.00' 292° 25 NM to fld. 1020/02W.



TRADEWATER (See DAWSON SPRINGS)

TRADEWATER N37°28.00′ W87°56.82′ NOTAM FILE LOU.

NDB (MHW) 276 TWT 357° 4.5 NM to Sturgis Muni. (Unmonitored 0000-1200Z‡)

ST LOUIS L-161

STIIOLITS

TUCKER-GUTHRIE MEML (See HARLAN)

WAYNE CO (See MONTICELLO)

WENDELL H FORD (See HAZARD)

WEST LIBERTY (913) 1 S UTC-5(-4DT) N37°54.87′ W83°15.13′

CINCINNATI

934 NOTAM FILE LOU

RWY 07–25: H2400X60 (ASPH) S–9

RWY 07: Trees. RWY 25: Trees.

AIRPORT REMARKS: Unattended. Call 606–434–4065 for arpt conditions. CAUTION—tkf/ldg-turbulence from surrounding wooded hills, no wind indicator.

COMMUNICATIONS: CTAF 122.9

WILLIAMSBURG-WHITLEY CO (W38) 4 NNW UTC-5(-4DT) N36°47.70′ W84°11.97′

CINCINNATI

1178 B FUEL 100LL, JET A NOTAM FILE LOU

H-9A, L-25B

RWY 02–20: H5500X100(ASPH) S–30, D–45 MIRL 0.4% up N

IAP

RWY 02: REIL. PAPI(P4L)—GA 3.17° TCH 35'. Trees.

RWY 20: REIL. PAPI(P4L)-GA 3.17° TCH 30'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z‡. ACTIVATE MIRL Rwy 02-20, REIL Rwy 02 and Rwy 20—CTAF.

WEATHER DATA SOURCES: ${\tt AWOS-3\ 119.575\ (606)\ 549-1585}.$

COMMUNICATIONS: CTAF/UNICOM 122.7

(R) INDIANAPOLIS CENTER APP/DEP 124.625

RADIO AIDS TO NAVIGATION: NOTAM FILE LOZ.

 $\textbf{LONDON (L) YORTAC} \ 116.1 \qquad \text{LOZ} \qquad \text{Chan } 108 \qquad \text{N37}^{\circ} 01.99' \ \text{W84}^{\circ} 06.60' \qquad 200^{\circ} \ 14.9 \ \text{NM to fld.} \ 1245/03W.$

HIWAS.

YORK N38°38.65′ W82°58.70′ NOTAM FILE LOU.

CINCINNATI

(L) VORTAC 112.8 YRK Chan 75 $\,$ 118° 12.7 NM to Ashland Rgnl. 1040/05W.

RCO 122.1R 112.8T (LOUISVILLE RADIO)

L-26H

2009 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During CY 2009, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding these airspace restrictions.

The currently scheduled 2009 aerial demonstration locations, subject to change without notice, are:

DATE:		USAF Thunderbirds	USN Blue Angels	Canadian Snowbirds	USA Golden Knights
October	24-25		Fort Worth, TX		Fort Worth, TX
	24-25				Pinehurst, NC
	31		Houston, TX		
November	1		Houston, TX		
	7-8	Homestead AFB, FL	Jacksonville Beach, FL		
	13-14		NAS Pensacola, FL		
	14-15	Nellis AFB, NV			

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding any airspace restrictions.

NOISE ABATEMENT PROCEDURES COVINGTON, KY, CINCINNATI/NORTHERN KENTUCKY INTL AIRPORT (CVG)

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no further than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

AEROBATIC PRACTICE AREA Jack Edwards Airport (JKA) Gulf Shores, AL

Aerobatic flight activity will be conducted within a 2 NM radius of airport. Contact UNICOM for traffic and Anniston AFSS for specific times.

Fayette County, Somerville, Tennessee

Aerobatic training and practice is conducted in a 3500' symmetrical box located 500 feet west of Rwy 01–19 from the sfc to 4500 MSL. If surface winds favor Rwy 01, right traffic for that rwy is in effect when area is active.

Pilots should use caution within this area. For further information contact Jackson AFSS on 1-901-423-1289.

CONTROLLED FIRING AREA Milan, Tennessee

Controlled Firing Area 5 NM radius 2500' & blo of MKL 030/018, eff. Mon-Fri 1200-2300Z‡, Sat 1530-2230Z‡ Sun 1230-1700Z‡.

Helicopter Activity Mosby Army Heliport, Dahlonega, GA Area

Occasional military helicopter activity within 15NM radius of Mosby AHP, (34°37'N/84°06'W) SFC to 3700 MSL. Activity includes: flight formations, personnel transport operations, cargo para—drop operations (below 500 AGL), medical evacuation and night vision device training. CTAF 227.2, 139.3, "Mountain Ranger 08" FM 34.10. Staff Duty Officer, Camp Frank D. Merrill, (706) 864–3367.

NIGHT VISION LIGHTS OUT OPERATIONS North Carolina. South Carolina

Military helicopter activity will be conducted for Night Vision Lights Out Training in North Carolina and South Carolina. Position lights will be extinguished or greatly reduced in intensity. The training is conducted in areas of low air traffic and not within four (4) miles of a public use airport. Training is IAW exemption to Far Part 91.

Boundaries: Beginning at Lat $35^{\circ}41'N$, Lon $78^{\circ}30'W$; to Lat $34^{\circ}00'N$, Lon $78^{\circ}30'W$; to Lat $34^{\circ}00'N$, Lon $80^{\circ}00'N$, Lon $80^{\circ}00'N$, Lon $80^{\circ}30'W$; to point of beginning.

Times of use: Sunset to sunrise, daily.

Helicopter Activity Camp Blanding, Starke, Florida Area

Heavy military helicopter activity within 9 NM radius Blanding AAF, (29°57′7.84″N; 81°58′47.32″W). Surface to 1,500 feet. Activity includes: flight formations, personnel transport operations, sling loads, MED VAC, and night vision goggle training. Mon–Sat 1300–0500Z‡, 1300–2000Z‡ Sun. Blanding Twr 123.0 by NOTAM, other times Range Control 123.0. (904) 533–3113/3352.

Cuban Flight Advisory (UNTIL FURTHER NOTICE)

The Federal Aviation Administration has been informed that an official Cuban government publication has issued a warning that Cuban Armed Forces will shoot down any aircraft that penetrates Cuban Airspace illegally and refuses to obey an order to land for inspection.

All pilots should take note: use extreme caution in the area of Cuban Airspace; adhere strictly to Cuban requirements for overflight of their territory.

LASER LIGHT DEMONSTRATIONS Lake Buena Vista, Florida

A laser light demonstration will be conducted at Disney MGM Studios Theme Park, Lake Buena Vista, Florida (ORL 226 radial, 16.2 NM, LAT 28°21'42"N, LON 81°33'29"W), from 6:00 PM until 4:00 AM, until further advised. The beam may be injurious to eyes if viewed within 3,000 feet vertically and/or 12,000 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

Lake Buena Vista, Florida

A laser light demonstration will be conducted at Epcot Center, Lake Buena Vista, Florida (ORL 226 radial, 16 NM, lat 28*22'N, long 81*32'W), from 6:00 pm until 4:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 1 nautical mile laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

Miami, Florida

A permanent laser light demonstration will be conducted at Bayfront Park, Miami, Florida (VKZ 312 radial, 2.24 NM, Lat 25*46'41"N, Lon 80°11'12"W), from 8:00 p.m. until 12:00 a.m. until further advised. The laser light beam is not expected to elevate above the horizon from a 90 foot high platform. Laser light beam may be injurious to eyes if viewed within 4,400 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

Miami Beach, Florida

A permanent Laser Light Demonstration will be conducted at the Amnesia Club, located in Miami Beach, Florida, Lat 25°46"N/Long 80°08"W, nightly from dusk until 2 AM.

Laser Light beam may be injurious to eyes if viewed within 3,500 feet vertically and/or 2,000 feet laterally of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

Orlando, Florida

A laser light demonstration will be conducted at Sea World of Florida, Orlando, Florida (ORL 220 radial, 11 NM, Lat 27°24′N, Long 81°27′W), from 6:30 pm until 12:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 6500 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

A permanent laser light demonstration will be conducted at the Walt Disney World, Alien Encounter, Orlando, Florida, ORL VORTAC 239 radial, 15 nautical miles, from Dusk to 12:00 AM daily.

Laser light beam may be injurious to eyes if viewed within 2500 feet laterally and/or 2500 feet vertically of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

Decatur, Georgia

Laser light activity will be conducted at Agnes Scott College, Decatur, GA located at Lat 33° 45′ 55″N/Long 84° 17′ 39″W (ATL 041° radial, 11 NM), intermittent daily, at an angle of 90 degrees from the surface, projecting up to 14,036 feet, until further notice. Flash blindness or cockpit illumination may occur beyond these distances.

Clemson, South Carolina

A permanent laser light demonstration will be conducted at Clemson University, Clemson, South Carolina, ELW VORTAC 353R/18NM, from dusk until dawn, daily.

Laser light beam may be injurious to eyes if viewed within 3,500 feet laterally and/or 3,500 feet vertically of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

LASER LIGHT EXPERIMENT

Arecibo Observatory, Puerto Rico

Location: 18°-20'-37"N 66°-45'-11"W

A Laser Light Beam Experiment will be conducted at the Arecibo Observatory, Puerto Rico (PSE 340/30), from one hour before sunset until one hour after sunrise twice weekly (by NOTAM).

Laser light beam may be injurious to eyes if viewed within 5,000 feet vertical and/or one nautical mile lateral of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

MEMPHIS, TN MEMPHIS INTL AIRPORT (MEM) NOISE ABATEMENT PROCEDURES

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

NASHVILLE, TN NASHVILLE INTL AIRPORT (BNA) NOISE ABATEMENT PROCEDURES

Successive or simultaneous departures from Runways 20L and 20R are authorized, with course divergence beginning within 1mile of the departure end of parallel runways, due to noise abatement restrictions.

CHARLOTTE, NC CHARLOTTE/DOUGLAS INTL AIRPORT (CLT) NOISE ABATEMENT PROCEDURES

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 3 miles from the departure end of parallel runways, due to noise abatement restrictions.

AIRSPACE DELEGATED TO MACDILL AFB

From 1100–2300 UTC (0700–1900 Local) daily, the following airspace that lies within the Tampa CLASS B Airspace will be delegated to McDill AFB ATCT for airport traffic control services, and CLASS B Airspace services will not be provided within this portion of the CLASS B Airspace:

That airspace which extends from 1,200 feet MSL up to and including 1,600 feet MSL, south of a line located $1\frac{1}{2}$ miles west of and parallel to MacDill AFB Runway 4/22 extended runway centerline, within a 4.5 NM radius from the geographical center of the MacDill AFB Airport.

Indianapolis ARTCC NABB INDIANA AREA

New Hope, London, Lexington Kentucky Area

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio canability

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

HELICOPTER ACTIVITY ORLANDO, FL AREA.

Heavy helicopter activity over the Disney attractions, Sea World, Universal Studios, Bay Hill and surrounding area. Surface to 1000' MSL. Operations 24 hours daily. Helicopters, transmitting and receiving on 123.02.

CAUTION-TETHERED AEROSTAT RADAR SYSTEM (TARS)

A TARS (a large helium-filled balloon) operates continuously up to 14,000 feet, except during inclement weather or when the system is down for maintenance, in R–2916 at Cudjoe Key, Florida. The tether is unmarked and is virtually impossible to see from only a few hundred feet. See the Miami Sectional Chart for location.

SPECIAL NORTH ATLANTIC. CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area: 123.45 MHz
Caribbean area: 123.45 MHz
Pacific area: 123.45 MHz

ST. PETERSBURG, FLORIDA

Pilots planning to overfly the St. Petersburg VORTAC (PIE) below 13,000 feet MSL should file via the Lakeland VORTAC (LAL) between 1100 and 2300 UTC.

GEORGIA

Atlanta Tower: Low altitude airway structure in proximity of the Hartsfield–Jackson Atlanta Intl Airport is aligned to provide bypass routes for traffic overflying Atlanta. To avoid heavy concentration of high performance and wide-bodied aircraft, pilots should file for airways beyond 35 nautical miles from Atlanta VOR. Aircraft operating IFR below 15,000 MSL, via airways within 35 nautical miles of Atlanta VOR may expect altitude changes and/or rerouting between the hours 0830 and 2100 local.

U.S. SPECIAL CUSTOMS REQUIREMENT

Air Commerce Regulations of the Treasury Department's Customs Service require all private aircraft arriving in the U.S. from a foreign place in the Western Hemisphere, (a) south of 33 degrees north latitude which cross into the U.S. over a point on the U.S./Mexican border between 97 and 120 degrees west longitude, or (b) south of 31 degrees north latitude which enter the U.S. via the Gulf of Mexico and Atlantic Coasts, to provide notice of intended arrival to the Customs Service at least one hour prior to crossing the U.S./Mexican border or the U.S. coastline. This notice may be provided by: (1) radio through an appropriate FAA Flight Service Station, (2) normal FAA flight plan notification procedures (a flight plan filed in Mexico does not meet this requirement due to unreliable relay of data), or (3) directly to the District Director of Customs or other Customs officer at place of first intended landing. Unless an exemption has been granted by Customs, private aircraft are required to make first landing in the U.S. at one of the following designated airports nearest to the point of border or coastline crossing:

Brownsville International, Corpus Christi International, Del Rio International, Eagle Pass Airport, El Paso International, Hobby Airport, Jefferson County Airport, Laredo International, Miller International, or Presidio—Lely International in Texas; Calexico International, or Brown Field in California; Bisbee Douglas International, Nogales International, Tuscon International, or Yuma International in Arizona; Las Cruces Intl in New Mexico; Lakefront or Louis Armstrong New Orleans Intl in Louisana; Fort Lauderdale Executive, Fort Lauderdale—Hollywood International, Key West Airport, Miami International, Opa—Locka Airport, St. Lucie County International, Tampa International, or West Palm Beach Airport in Florida.

MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army Installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT RESTRICTIONS BOCA RATON AIRPORT, FLORIDA

On initial contact, pilot should advise local Air Traffic Control Tower or announce on local Unicom frequency if aircraft has greater than 79 feet wingspan and/or greater than 140 knot approach speed. Aircraft with wingspan greater than 79 feet and/or an approach speed greater than 140 knots are prohibited from using Runway 5/23 while any aircraft occupies Taxiway P. Aircraft with a wingspan greater than 79 feet must remain clear of Taxiway P while any aircraft are approaching or departing Runway 5/23.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

FEDERAL AVIATION REGULATION 91.713

The provisions of FAR 91.713 will apply as follows:

Air traffic clearances to aircraft of Cuban registry not engaged in scheduled International Air Service in U.S. airspace will require that the flight plan be filed with appropriate authorities at least five days prior to the proposed departure time. Route changes while en route will normally not be authorized. The procedures set forth herein do not apply at this time to overflights by aircraft of Cuban registry engaged in scheduled International Air Service.

CAUTION—HIGH DENSITY AIR TRAFFIC AREA

Heavy helicopter and seaplane traffic exists over the Gulf of Mexico and adjacent onshore areas. Thousands of operations per month occur in this area in support of oil drilling and exploration.

Itinerant pilots traversing this area should familiarize themselves with offshore operating practices and frequencies through contact with the pertinent Flight Standards District Office (FSDO) or Flight Service Station.

CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

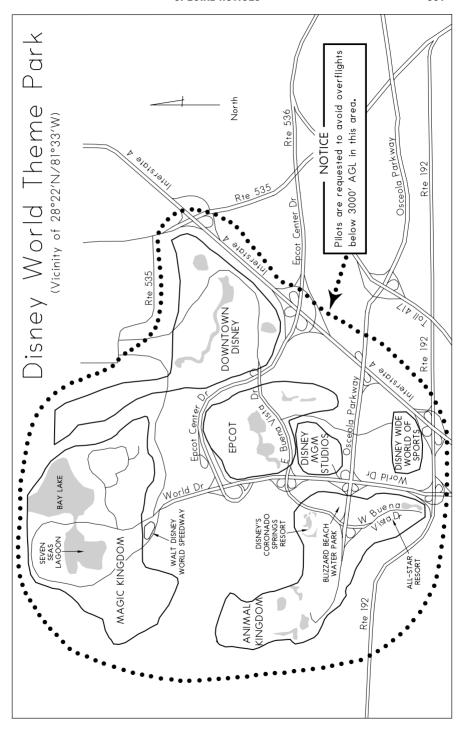
In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

- 1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
- 2. Wind Measuring Capability
- 3. Approach Light System (ALS) or Short ALS (SALS)
- 4. Ceiling Measuring Capability
- Touchdown Zone Lighting (TDZL)
- 6. Centerline Lighting (CL)
- 7. Runway Visual Range (RVR)
- 8. High Intensity Runway Lighting (HIRL)
- 9. Taxiway Lighting
- 10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ)	08	Milwaukee, WI (MKE)	01L
Anchorage, AK (ANC)	07R	Minneapolis, MN (MSP)	30L
Andrews AFB, MD (ADW)	01L	Nashville, TN (BNA)	02L
Atlanta, GA (ATL)	09R	New Orleans, LA (MSY)	10
Baltimore, MD (BWI)	10	New York, NY (JFK)	04R
Bismarck, ND (BIS)	31	New York, NY (LGA)	22
Boise, ID (BOI)	10R	Newark, NJ (EWR)	04R
Boston, MA (BOS)	04R	Oklahoma City, OK (OKC)	35R
Charlotte, NC (CLT)	36L	Omaha, NE (OMA)	14R
Chicago, IL (ORD)	14R	Ontario, CA (ONT)	26L
Cincinnati, OH (CVG)	36C	Philadelphia, PA (PHL)	09R
Cleveland, OH (CLE)	06R	Phoenix, AZ (PHX)	08
Dallas/Fort Worth, TX (DFW)	17C	Pittsburgh, PA (PIT)	10L
Denver, CO (DEN)	35R	Reno, NV (RNO)	16R
Des Moines, IA (DSM)	31	Salt Lake City, UT (SLC)	34L
Detroit, MI (DTW)	03R	San Antonio, TX (SAT)	12R
El Paso, TX (ELP)	22	San Diego, CA (SAN)	09
Fairbanks, AK (FAI)	01L	San Francisco, CA (SFO)	28R
Great Falls, MT (GTF)	03	San Juan, PR (SJU)	08
Honolulu, HI (HNL)	08L	Seattle, WA (SEA)	16C
Houston, TX (IAH)	26L	St. Louis, MO (STL)	30R
Indianapolis, IN (IND)	05L	Tampa, FL (TPA)	36L
Jacksonville, FL (JAX)	07	Tulsa, OK (TUL)	36R
Kansas City, MO (MCI)	19R	Washington, DC (DCA)	01
Los Angeles, CA (LAX)	24R	Washington, DC (IAD)	01R
Memphis, TN (MEM)	36L	Wichita, KS (ICT)	01L
Miami, FL (MIA)	08R		

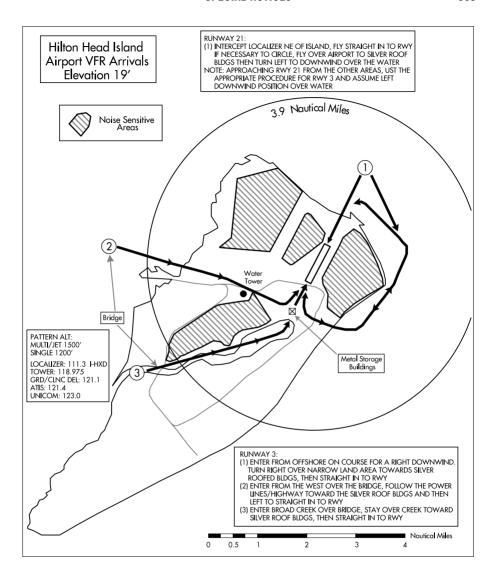
NOTE—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

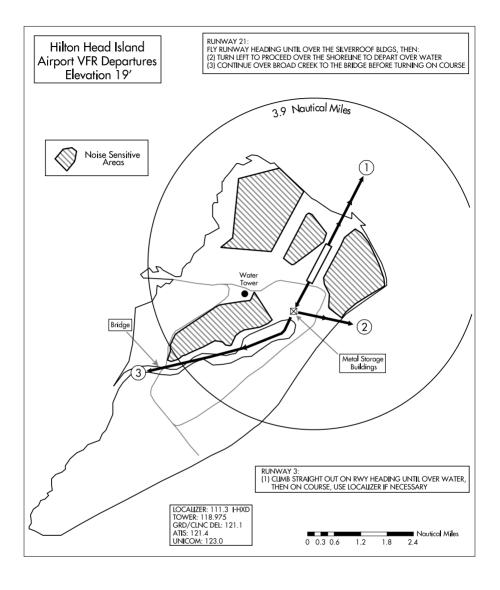


SE, 22 OCT 2009 to 17 DEC 2009

DISNEY WORLD THEME PARK NOTICE

Pursuant to Public Law 108–199, Section 521, aircraft flight operations are prohibited at and below 3,000 feet AGL within a 3 nautical mile radius of the Disney World Theme Park (282445N/081342W or the Orlando (ORL) VORTAC 238 degree radial at 14.8 nautical miles). This restriction does not apply to: (A) those aircraft authorized by ATC for operational or safety purposes, including aircraft arriving or departing from an airport using standard air traffic procedures; (B) Department of Defense, law enforcement, or aeromedical flight operations that are in contact with ATC; Those who meet any of the following criteria may apply for a waiver to these restrictions: (A) for operational purposes of the venue, including the transportation of equipment or officials of the governing body; (b) for safety and security purposes of the venue.





BOWMAN FIELD

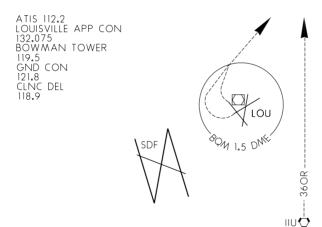
TERMINAL AREA GRAPHIC NOTICE

(Not to be used for navigation)

Bowman Airport Runway 24 and Runway 32 VFR Departure Procedure.

"SENECA DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.



Remaining within $1^{1}/_{2}$ miles from Bowman VOR (BQM), turn right heading O45, maintaining VFR at or below 2500 feet. Expect IFR activation and climb upon crossing the IIU 360 radial

WEATHER MINIMUMS: Ceiling 3000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 2500 feet constitutes activation of IFR clearance upon leaving 2500 feet.

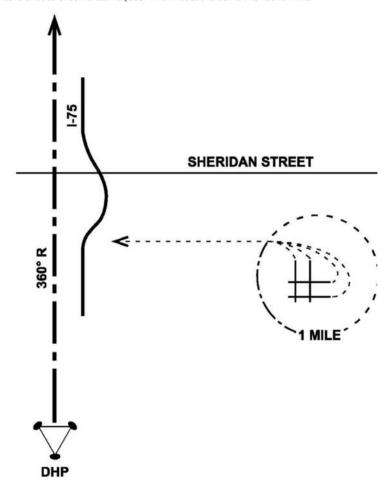
HOLLYWOOD/NORTH PERRY (HWO) HOLLYWOOD, FL

TERMINAL AREA GRAPHIC NOTICE (Not to be used for navigation)

Hollywood/North Perry Airport Runway 9L, 9R, 36L and 36R VFR Departure Procedure.

"SHERIDAN DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.



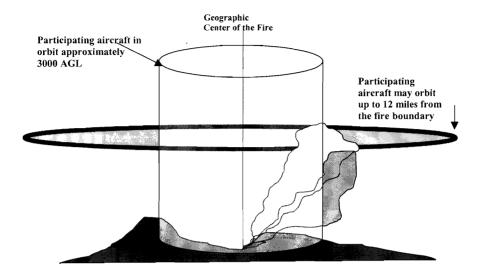
ATIS 135.475
MIAMI APPROACH CONTROL 128.6
NORTH PERRY TOWER 132.1
GROUND CONTROL 120.45

Remain within 1 mile from HWO airport, if departing north or east turn left to heading 260. Remain south of Sheridan Street VFR at or below 1500. Expect IFR activation and climb crossing I75 (5 miles west of HWO) or the DHP 360 radial.

WEATHER MINIMUMS: Ceiling 2000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 1500 constitutes activation of IFR clearance.

FIREFIGHTING TRAFFIC AREAS



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, Patterns, and/or Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

DESTIN-FT WALTON BEACH, FLORIDA VALPARAISO TERMINAL AREA

Part 93, Subpart F, prescribes that Valparaiso, Florida, Terminal Area, and the special air traffic rules for operating aircraft within specific corridor.

- North-South Corridor.

Before operating within the corridor, obtain a clearance from the Eglin Radar Control Facility or an appropriate FAA ATC facility, and maintain two-way radio communication with the Eglin Radar Control Facility while within the corridor.

- East-West Corridor.

Before operating within the corridor, establish two-way radio communications with Eglin Radar Control Facility or an appropriate FAA ATC facility for an ATC advisory concerning operations being conducted therein; and maintain two-way radio communications with the Eglin Radar Control Facility while within the corridor. For Destin/Eglin AFB FL Part 93 Operations details, see FAASafety.gov Knowledge Course at: http://faasafety.gov/gslac/ALC/course_catalog.aspx.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93–1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at http://www.faa.gov. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e–CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll–free telephone number for accessing e–CVRS is 1–800–875–9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll–free areas may access e–CVRS by calling the toll number of 703–707–0568. The Internet web address for accessing the e–CVRS is http://www.fly.faa.gov/ecvrs. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904–4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904–4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e–CVRS.

FSS TELEPHONE NUMBERS

Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

Selected remote FSS facilities across the contiguous United States have variable part-time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

SOUTHEAST U.S.

FLORIDA: St. Petersburg, St. Petersburg—Clearwater International (PIE) — PIE FSS NORTH CAROLINA: Raleigh, Raleigh—Durham International (RDU) — RDU FSS

TENNESSEE: Nashville, Nashville International (BNA) — BNA FSS

Telephone Information Briefing Service (TIBS) is a FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above)	1-877-4TIBS-WX (1-877-484-2799)
Clearance Delivery Only	1-888-766-8267
Lifeguard Flights Only	1-877-LIF-GRD3 (1-877-543-4733)
Flights within DC SFRA & FRZ*	1-866-225-7410

^{*} District of Columbia Special Flight Rules Area & Flight Restricted Zone

390 FAA AND NWS

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA OVC008CB

FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB 18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
TAF	Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report	METAR
KPIT	ICAO location indicator	KPIT
091730Z	Issuance time: ALL times in UTC "Z", 2-digit date, 4-digit time	091955Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. METAR : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	COR
15005KT	Wind: 3 digit true-north direction, nearest 10 degrees (or VaRiaBle); next 2-3 digits for speed and unit, KT (KMH or MPS); as needed, Gust and maximum speed; 00000KT for calm; for METAR, if direction varies 60 degrees or more, Variability appended, e.g. 180V260	22015G25KT
5SM	Prevailing visibility: in U.S., <u>Statute Miles & fractions</u> ; above 6 miles in <u>TAF Plus6SM</u> . (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM
	Runway Visual Range: R; 2-digit runway designator Left, Center, or Right as needed; "/"; Minus or Plus in U.S., 4-digit value, FeeT in U.S., (usually meters elsewhere); 4-digit value Variability 4-digit value (and tendency Down, Up or No change)	R28L/2600FT
HZ	Significant present, forecast and recent weather: see table (on back)	TSRA
FEW020	Cloud amount, height and type: SKy Clear 0/8, FEW >0/8-2/8, SCaTtered 3/8-4/8, BroKeN 5/8-7/8, OVerCast 8/8; 3-digit height in hundreds of ft; Towering CUmulus or CumulonimBus in METAR; in TAF, only CB. Vertical Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, CLeaR for "clear below 12,000 feet"	OVC010CB
	Temperature: degrees Celsius; first 2 digits, temperature "/" last 2 digits, dew-point temperature; Minus for below zero, e.g., M06	18/16
	Altimeter setting: indicator and 4 digits; in U.S., A-inches and hundredths; (Q-hectoPascals, e.g., Q1013)	A2992

FAA AND NWS 391

KEY to AERODROME FORECAST (TAF) and **AVIATION ROUTINE WEATHER REPORT** (METAR)

Forecast	Explanation	Report
WS010/31022KT	In U.S. TAF , non-convective low-level (≤2,000 ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); "/"; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u>	
	In METAR , <u>ReMarK</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/dew-point</u> in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C	RMK SLP045 T01820159
FM1930	<u>FroM</u> and 2-digit hour and 2-digit minute beginning time: indicates significant change. Each FM starts on new line, indented 5 spaces.	
TEMPO 2022	TEMPOrary: changes expected for < 1 hour and in total, < half of 2-digit hour beginning and 2-digit hour ending time period	
PROB40 0407	PROBability and 2-digit percent (30 or 40): probable condition during 2-digit hour beginning and 2-digit hour ending time period	
BECMG 1315	BECoMinG: change expected during 2-digit hour beginning and 2-digit hour ending time period	

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.

QUALIFI	ER					
Intensity of	r Proximity					
- Light	"no	sign* Moderate	+ F	leavy		
		erodrome; in U.S. MI				
obse	ervation; in U.S.	TAF, 5 to 10SM fron	ı cei	nter of runway compl	ex (elsewhere within 8000m)
Descriptor						
MI Shal	low BC	Patches	PR	Partial	TS	Thunderstorm
BL Blov	ving SH	Showers	DR	Drifting	FΖ	Freezing
WEATHE	R PHENOME	NA				
Precipitati	on					
DZ Driz				Snow	SG	Snow grains
		Ice pellets			GS	Small hail/snow pellets
		on in automated obse	ervat	ions		
Obscuration						
					V۸	Volcanic ash
SA San	d HZ	Haze	PΥ	Spray	DU	Widespread dust
Other						
SQ Squ				Duststorm	PO	Well developed
FC Fun	nel cloud +F0	tornado/waterspout				dust/sand whirls

- Explanations in parentheses "()" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS TAFs exclude turbulence, icing & temperature forecasts; NWS METARs exclude trend fcsts
 Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

 UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052 National Oceanic and Atmospheric Administration—National Weather Service

FAA AND NWS KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number......703-904-4400

RGNL AIR TRAFFIC DIVISIONS					
REGION TELEPHONE					
Alaskan	907-271-5464				
Central	816-329-2500				
Eastern	718-553-4502				
Great Lakes	847-294-7202				
New England	781-238-7500				
Northwest Mountain	425-227-2500				
Southern	404-305-5500				
Southwest	817-222-5500				
Western Pacific	310-725-6500				

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS Hours	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m4:30 p.m.	703-771-3401

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m3:30 p.m.	916-366-4001
Southern CA	310-725-3300	7:30 a.m4:00 p.m.	858-537-5800

^{*}Facilities can be contacted through the RgnI Duty Officer during non-business hours.

FAA AND NWS

KEY AIR TRAFFIC FACILITIES DAILY NAS REPORTABLE AIRPORTS

AIRPORT	*24 HR RGNL DUTY OFFICE	BUSINESS	BUSINESS
NAME	TELEPHONE #	HOURS	TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m4:30 p.m.	301-735-2380
Baltimore/Washington			
Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781–238–7001	7:30 a.m4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300 404-305-5180	7:00 a.m5:30 p.m. 8:00 a.m4:30 p.m.	818–567–4806 704–344–6487
Charlotte Douglas Intl, NC Chicago Midway, IL	847-294-8400	8:00 a.m.–4:00 p.m. 8:00 a.m.–4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m.–4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m.–5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m3:30 p.m.	305-356-7932
George Bush			
Intercontinental/Houston, TX	817-222-5006	7:30 a.m4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404–305–5180	7:00 a.m3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-643-3200	7:30 a.m4:00 p.m.	808-840-6100
Houston Hobby, TX Indianapolis Intl, IN	817-222-5006 847-294-8400	8:00 a.m5:00 p.m. 8:00 a.m4:00 p.m.	713–847–1400 317–484–6600
Kahului/Maui, HI	310-643-3200	7:30 a.m.–4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m.–4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.–4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m3:30 p.m.	310-342-4900
Louis Armstrong New Orleans			
Intl, LA	817-222-5006	7:00 a.m4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	7:30 a.m4:00 p.m.	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m4:00p.m.	612-713-4000
Nashville Intl, TN	404–305–5180	7:00 a.m3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m4:30 p.m.	718-656-0335
New York La Guardia, NY Newark Liberty Intl, NJ	718–995–5426 718–995–5426	8:00 a.m4:30 p.m. 8:00 a.m4:30 p.m.	718–335–5461 973–645–3103
Norman Y. Mineta San Jose Intl, CA	310-643-3200	7:30 a.m.–4:00 p.m.	408-982-0750
Ontario Intl, CA	310-643-3200	7:30 a.m4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m.–5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.–4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m4:30 p.m.	919-840-5544
Ronald Reagan Washington			
National, DC	718-995-5426	8:00 a.m4:30 p.m.	703-413-1535
Salt Lake City, UT	425–227–1389	7:30 a.m4:00 p.m.	801–325–9600
San Antonio Intl, TX	817-222-5006	8:00 a.m4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA San Francisco Intl, CA	310–725–3300 310–643–3200	8:00 a.m4:30 p.m. 7:00 a.m3:30 p.m.	619–299–0677 650–876–2883
San Francisco Inti, CA San Juan Inti, PR	404–305–5180	7:30 a.m.–5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m4:00 p.m.	206-768-2900
St. Louis Lambert, MO	816-329-3000	7:30 a.m.–4:00 p.m.	314-890-1000
Tampa Intl, FL	404–305–5180	7:30 a.m.–4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m4:30 p.m.	703-661-6031
West Palm Beach, FL	404-305-5180	8:00 a.m4:30 p.m.	407-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m4:30 p.m.	914-948-6520

SE, 22 OCT 2009 to 17 DEC 2009

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

(R)ATLANTA CENTER

H-6-9-10-12, L-18-22-24-25-26-36, A-1 (KZTL)

Albemarle - 133.15

Anniston - 134.95

Athens - 127.5 127.5 124.45 120.425

Atlanta A - 135.0

Augusta - 128.1

Birmingham - 134.05 128.725 Black Jack Mountain - 127.05

Chattanooga - 133.175 132.05 126.675 124.875

Columbus - 125.575 120.45

Crossville - 133.6 132.675 125.925 Foothills - 124.375

Gadsden - 133.8

Glade Springs - 127.85 Greensboro - 128.8 124.425

Hampton - 128.0 127.125 126.475 124.325

Hickory - 134.55 132.975 125.15

Huntsville - 126.825

Jonesville - 125.025 119.575

Macon - 134.5 126.425 123.95 119.575

Millen - 135.55

Monroeville - 118.55

Montgomery - 134.6 128.025 125.875 120.55

Mount Oglethorpe - 134.8 133.1 121.35

Newport - 134.075 127.55 Owing - 135.35 125.625 123.725

Statham - 132.475 132.475

Sugarloaf Mountain - 132.625

Tri City - 126.775 120.725 Uniontown - 133.25 132.25

(R)HOUSTON CENTER - 134.35

H-6-7-8-9, L-17-18-19-20-21-22

H-5-9-10-12, L-16-25-26-27-29

(KZHU)

(KZID)

Arr-Dep US - 135.77 134.95 133.75 133.4 132.65 132.4 128.3 127.8 125.75 120.35

Mobile - 127.65 125.775

RINDIANAPOLIS CENTER - 133.425 132.775 128.375 125.55

124.525 119.55 Evansville - 132.525 128.3

Livingston - 134.675 126.925

London 2 - 126.57 124.625 121.325

Lvnch - 126.575

New Hope - 124.625 121.175

Portsmouth - 124.225 120.275

Tri City - 124.575

Winchester - 128.22 126.375 123.775

R JACKSONVILLE CENTER

H-6-7-8-9-12, L-18-21-22-24-25-35-36, A-1 (KZJX)

Arr-Dep US-South Atlantic Control N of 31°30' - 135.05 S of 31°30'N 134.85

Albany - 134.45 125.75

Alma - 135.975 133.3 132.3

Charleston - 135.05 133.625 132.475 127.95 124.075

Columbia - 127.875 124.7

Crestview - 134.15 124.475 120.2

Davtona Beach - 134.0

Dothan - 134.3

Eglin - 132.1

Florence - 134.35 133.45

Gainesville - 135.65 134.4 124.75

Glynco - 126.75

Jacksonville - 134.85 126.35

Lake City - 125.375

Lowell - 135.75 133.325 125.175

Millen - 132.5

Myrtle Beach - 135.05 128.7

CONTINUED ON NEXT PAGE

AIR ROUTE TRAFFIC CONTROL CENTERS

CONTINUED FROM PRECEDING PAGE

Panama City - 119.1

Perry Foley - 127.8

St. Augustine - 134.575 132.825 127.475 126.35

Savannah - 132.425 126.125 120.85

Tallahassee - 135.325 128.625 128.075 125.05

Valdosta - 133.7 125.95

RMEMPHIS CENTER — 127.975 124.025

H-5-6-9, L-15-16-17-18-22-25-26

(KZME)

Columbus - 134.775 133.125 127.1 Graham - 125.85 124.275

Huntsville – 120.8

McKellar - 134.65 127.975 126.45 124.35

Memphis - 135.225 118.625

Nashville - 133.85 124.125 118.875

Nashville/Joelton 132.1 Paducah - 133.65 Shelbyville - 126.75 South Fulton - 128.05 Tupelo - 135.9 135.9 134.4

®MIAMI CENTER

H-8, L-21-22-23-24, A-1

(KZMA)

Avon Park - 134.55 127.2 126.525

Fort Myers - 134.75 133.275 Grand Bahama Island - 134.2

Grand Turk - 135.2 132.3

Key West - 133.5 132.2 132.2 124.7 124.7

Melbourne - 135.075 128.65 124.1 119.825

Miami - 132.95 133.85 133.2 133.95 132.4 127.7 126.325 124.7 124.7

Nassau - 134.8 125.7

Pahokee - 133.55 132.45

Sarasota - 133.9 132.35 128.225 Vero Beach - 135.7 132.25 125.075

West Palm Beach - 135.175 133.4 132.15

CENTER REMARKS: All northbound IFR flights entering Miami in vicinity of Grand Turk and Great Inagua must contact Miami Center on 132.3/307.2 at least 10 minutes prior to the Miami Center boundary for an air traffic clearance. Alternate communications are avbl thru ARINC or Miami Radio. This is due to heavy air traffic congestion in this area.

® SAN JUAN CENTER

H-2-3, L-5-6 (ZSU) (MJZS)

Borinquen - 135.7 135.7 124.35

El Yungue - 134.3 134.3 128.65 128.6 125.0 125.0 118.75 118.75 118.15 118.15

Pico Del Este - 134.3 134.3 128.65 128.65 125.0 125.0 118.15 118.15

CENTER REMARKS: All acft on an IFR flight plan in the San Juan CTA and within 200 NM of San Juan are requested to ctc San Juan Center on the following frequencies: Amber 300 clockwise thru Amber 523—134.3; East of Amber 523 clockwise to North of Blue 520—125.0; Blue 520 clockwise thru Amber 636—118.15; Red 763 clockwise thru Green 431—135.7. San Juan Cerap provides IFR clearances for St Croix Christiansted on freq 121.7 when St Croix twr closed. San Juan Cerap provides IFR clearances for St Thomas Charlotte Amalie-Harry S Truman on freq 121.9 when twr closed. San Juan Cerap provides IFR clearances for Ponce-Mercedita on freq 121.9. San Juan Cerap provides IFR clearances for Mayaguez-Eugenio Maria De Hostos on freq 121.7.

RWASHINGTON CENTER

H-9-10-12, L-24-25-26-29-34-35-36

Arr-Dep US - 135.5 133.82 133.12 132.55 128.52 127.7 127.42 124.02 123.85 118.82

(KZDC)

Green Bay - 133.725 127.75 Johnsonville - 135.2 118.925

Manteo - 124.725

New Bern - 135.5 118.825

Rocky Mount - 118.475 132.225

Sampson - 135.3

Whaleyville - 133.825 128.525 127.425 123.85

Wilmington - 124.025

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above, "T" indicates transmit only and "R" indicates receive only, RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

ANDERSON AFSS

AIKEN RCO 122.45

ALLENDALE VOR 116.7T 122.1R

ANDERSON RCO 122.2 123.6

CHARLESTON VORTAC 113.5T 122.1R 122.2 122.5

CHESTERFIELD VOR/DME 108.2T 122.05R

COLLIERS VORTAC 113.9T 122.1R

COLUMBIA VORTAC 114.7T 122.1R 122.65

FLORENCE VORTAC 115.2T 122.1R 122.6

FOOTHILLS VORTAC 113.4T 122.1R FORT MILL VORTAC 112.4T 122.1R

GRAND STRAND VORTAC 117.6T 122.1R 123.6

GREENWOOD VORTAC 115.5T 122.1R 122.625

GREER RCO 122 2 122 65

HILTON HEAD ISLAND RCO 122.55

SPARTANBURG VORTAC 115.7T 122.1R

VANCE VORTAC 110.4T 122.1R

ANNISTON AFSS

ANNISTON RCO 122.2 123.6

BIRMINGHAM RCO 122.2 123.65

BROOKLEY VORTAC 112.8T 122.1R CRIMSON VORTAC 117.8T 122.1R

DECATUR RCO 122.6

DOTHAN RCO 122.2 122.5

EUFAULA VORTAC 109.2T 122.1R

GADSDEN VOR/DME 112.3T 122.1R

HAMILTON RCO 122.3

HUNTSVILLE RCO 122.2

MOBILE RCO 122.2 123.65 MONROEVILLE VORTAC 116.8T 122.1R

MONTGOMERY VORTAC 112.1T 122.1R 122.2 122.55

MUSCLE SHOALS RC0 122.2 122.4

SELMA RCO 122.4

TALLADEGA VOR/DME 108.8T 122.05R

TUSCALOOSA RCO 122.2

TUSKEGEE VOR/DME 117.3T 122.1R

VULCAN VORTAC 114.4T 122.1R

WIREGRASS VORTAC 111.6T 122.1R

GAINESVILLE AFSS 122.1R 122.2 122.5 123.65

CRAIG VORTAC 114.5T 122.1R 122.2 122.45

CRESTVIEW RCO 122.0 122.2 122.45

CROSS CITY VORTAC 112.0T 122.1R GATORS VORTAC 116.2T 122.1R

GREENVILLE VORTAC 109.0T 122.1R

LAKE CITY RCO 122.6

MARIANNA VORTAC 114.0T 122.1R

OCALA VORTAC 113.7T 122.1R

PALATKA RCO 122.25

PANAMA CITY VORTAC 114.3T 122.1R

PENSACOLA RCO 122.2 122.6

PERRY RCO 122.45

ST AUGUSTINE RCO 122.3

SAUFLEY VOR 108.8T 122.1R

SEMINOLE VORTAC 117.5T 122.1R 122.2 122.4

TAYLOR VORTAC 112.9T 122.1R

JACKSON AFSS

CLARKSVILLE VOR/DME 110.6T 122.1R
DYERSBURG RCO 122.2 122.45
GRAHAM VORTAC 111.6T 122.1R 122.25
JACKS CREEK VOR/DME 109.4T 122.1R
JACKSON RCO 122.2 122.65 127.15
MEMPHIS VORTAC 117.5T 122.1R 122.2 123.65

LOUISVILLE AFSS

BOWLING GREEN RCO 122.2 122.4 CENTRAL CITY VORTAC 109.8T 122.1R CINCINNATI VORTAC 117.3T 122.1R FALMOUTH VOR/DME 117.0T 122.1R FRANKFORT VOR 109.4T 122.1R HAZARD VOR/DME 111.2T 122.1R LEXINGTON VORTAC 112.6T 122.1R LONDON VORTAC 116.1T 122.1R 122.2 122.65 LOUISVILLE RCO 122.1R 122.2 122.45 MADISON RCO 122.3 NEW HOPE VOR/DME 110.8T 122.1R NEWCOMBE VORTAC 110.4T 122.1R OWENSBORO VOR/DME 108.6T 122.1R PADUCAH RCO 122.2 122.5 PIKEVILLE RCO 122.05 SOMERSET RCO 122.55

YORK VORTAC 112.8T 122.1R

MACON AFSS

ALBANY RCO 122.6

ALMA VORTAC 115.1T 122.1R 123.6

ATHENS VORTAC 109.6T 122.1R

ATLANTA VORTAC 116.9T 122.1R 122.2 122.6

BRUNSWICK VORTAC 109.8T 122.1R 122.2

CHOO CHOO VORTAC 115.8T 122.1R

COLUMBUS VORTAC 117.1T 122.1R 122.65

DANIEL RCO 122.3

DUBLIN VORTAC 113.1T 122.1R 122.6

GAINESVILLE RCO 122.55

HARRIS RCO 122.35

LAGRANGE VORTAC 115.6T 122.1R

MACON RCO 122.0 122.1R 122.2 122.4

MOULTRIE VOR/DME 108.8T 122.1R

PEACHTREE VOR/DME 116.6T 122.1R

ROME RCO 122.3

SAVANNAH VORTAC 115.95T 122.1R 123.65

STATESBORO RCO 122.6

THOMASVILLE RCO 122.55

TIFT MYERS RC0 122.35

VALDOSTA VOR/DME 114.8T 122.1R 122.2

VIENNA VORTAC 116.5T 122.1R

WAYCROSS VORTAC 110.2T 122.1R

MIAMI AFSS 122.2 122.3 122.55 123.65 MIAMI IFSS 127.9 126.9 126.7

DADE COLLIER RCO 122.3

DAVIE RCO 126.7

DOLPHIN VORTAC 113.9T 122.1R

FORT MYERS RCO 122.1R 122.2 122.65

FORT PIERCE RCO 122.55

KEY WEST VORTAC 113.5T 122.1R 122.2 123.65

LA BELLE VORTAC 110.4T 122.1R

MARATHON RCO 122.6

NAPLES RCO 123.6

PAHOKEE VORTAC 115.4T 122.1R 122.35

PALM BEACH VORTAC 115.7T 122.1R 122.4

VIRGINIA KEY VOR/DME 117.1T 122.1R

NASHVILLE AFSS

BRISTOL RCO 122.2

CHATTANOOGA RCO 122.2 123.65

CROSSVILLE RCO 122.2 122.5

HINCH MOUNTAIN VORTAC 117.6T 122.1R

HOLSTON MOUNTAIN VORTAC 114.6T 122.1R

LIVINGSTON VORTAC 108.4T 122.1R

MCGHEE TYSON RCO 122.2 122.3

NASHVILLE RCO 122.1R 122.2 122.55

SHELBYVILLE VOR/DME 109.0T 122.1R

VOLUNTEER VORTAC 116.4T 122.1R

RALEIGH AFSS

BARRETTS MOUNTAIN VOR/DME 110.8T 122.1R

CHARLOTTE RCO 122.4

COFIELD VORTAC 114.6T 122.1R

ELIZABETH CITY VOR/DME 112.5T 122.05R 122.2

FAYETTEVILLE VOR/DME 108.8T 122.1R

GREENSBORO VORTAC 116.2T 122.1R 122.2 123.65

HATTERAS RCO 122.3

HICKORY RCO 122.2 122.6

KINSTON VORTAC 109.6T 122.15R

LIBERTY VORTAC 113.0T 122.1R

NEW BERN VOR/DME 113.6T 122.1R 122.2 122.4

PITT-GREENVILLE RCO 122.35

RALEIGH RCO 122.2 122.45 122.65

ROCKY MOUNT RCO 122.2 122.3

SANDHILLS VORTAC 111.8T 122.1R

SNOWBIRD VORTAC 108.8T 122.1R

SUGARLOAF MOUNTAIN VORTAC 112.2T 122.1R 122.2 122.3

TAR RIVER VORTAC 117.8T 122.1R

WILKESBORO RCO 122.4

WILMINGTON VORTAC 117.0T 122.1R 122.55

SAINT PETERSBURG AFSS

BROOKSVILLE RCO 122.3

FORT DRUM RCO 122.2

LAKELAND VORTAC 116.0T 122.1R

MELBOURNE VOR/DME 110.0T 122.1R 122.6

ORLANDO VORTAC 112.2T 122.1R 122.2 122.65 123.65

ORMOND BEACH VORTAC 112.6T 122.1R 122.4

PUNTA GORDA RCO 122.025

ST PETERSBURG VORTAC 116.4T 122.1R 122.2 122.45 123.6

SARASOTA VORTAC 115.2T 122.1R

SEBRING RCO 122.25

TITUSVILLE RCO 123.6

VERO BEACH VORTAC 117.3T 122.1R 122.2 122.5

SAN JUAN AIFSS

BORINQUEN VORTAC 113.5T 122.1R

MAYAGUEZ VOR/DME 110.6T 122.1R

PONCE VOR/DME 109.0T 122.1R

ST CROIX VOR/DME 108.2T 122.1R

ST THOMAS VOR/DME 108.6T 123.6R

SAN JUAN RCO 126.7 123.65 122.2

FSD0

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office–Federal Aviation Administration.

ALABAMA

Liberty Park Building 1500, Suite 250 1500 Urban Center Drive Vestavia Hills, AL 35242 Telephone: 205–731–1557

FLORIDA

Ft. Lauderdale Jet Center 1050 Lee Wagener Blvd. Ft. Lauderdale, FL 33315 Telephone: 954–635–1300

5950 Hazeltine National Drive Suite 500 Orlando, FL 32822-5023 Telephone: 407-812-7700 Fax: 407-812-7710

8600 NW 36th Street Miami, FL 33166 Telephone: 305-716-3400

5601 Mariner St, Suite 310 Tampa, FL 33609 Telephone: 813–287–4900 Fax: 813–639–1551

GEORGIA

Campus Building 1701 Columbia Ave. Suite 2–110 College Park, GA 30337–2748 Telephone: 404–305–7200 Fax: 404–305–7215

KENTUCKY

1930 Bishop Lane Waterson Towers, 11th Floor Louisville, KY 40218 Telephone: 502-753-4200

NORTH CAROLINA

6433 Bryan Blvd. Greensboro, NC 27409 Telephone: 336-662-1000

3800 Arco Corporate Drive, Suite 233

Charlotte, NC 28273 Telephone: 704-319-7020

PUERTO RICO

525 F.D. Roosevelt Ave. La Torre de Plaza, Suite 901 San Juan, PR 00918 Telephone: 787–764–2538

SOUTH CAROLINA

125-B Summer Lake Drive West Columbia, SC 29170 Telephone: 803-765-5931

TENNESSEE

2 International Plaza Drive, Suite 700 Nashville, TN 37217

Telephone: 615-324-1300

2842 Business Park Drive, Bldg G Memphis, TN 38118 Telephone: 901–322–8600

ROUTES PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

- 1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
- 2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
- 3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
- 4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
 - 5. Where more than one route is listed the routes have equal priority for use.
 - 6. Official location identifiers are used in the route description for VOR/VORTAC navaids.
 - 7. Intersection names are spelled out.
- 8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
- 9. Where two navaids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
- 10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
 - 11. (90-170 incl) altitude flight level assignment in hundred of feet.
- 12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
 - 13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.

Sun	1300-2259 local time.
Mon thru Fri	0701-2259 local time.
Sat	0701-1459 local time.

- 14. Use current SIDs and STARSs for flight planning.
- 15. For high altitude routes, the portion of the routes contained in brackets is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
ATLANTA METRO AREA		
Chicago Midway (MDW)	(60-170 incl) V97 NELLO V311 HCH V51 CGT	1200-0300
Chicago O'Hare (ORD)	(60-170 incl) V97 NELLO V311 HCH V51 CGT V7	
	BEBEE	1200-0300
Cincinnati (CVG)	(80-170 incl) V97 VXV V115 AZQ V339 FLM	1200-0300
CINCINNATI METRO AREA (CVG, LUK)		
Detroit/Wayne (DTW)	DQN MIZAR-STAR	1100-0300
Detroit Satellites:		
Ann Arbor (ARB)	DQN CRUXX-STAR	1100-0300
Pontiac (PTK),		
Willow Run (YIP)	DQN CRUXX-STAR	
Windsor (CYQG),		
Young (DET)	V275 KLINE VWV VWV064 LYNTN	

Terminals	Route	Times (UTC)
From COVINGTON (CVG) only	Route	(010)
Atlanta (ATL)	V97 VWV V267 HRS V463 WOMAC	1100-0300
Chicago Midway (MDW)	V128 VHP BVT V97 CGT	1100-0300
Chicago O'Hare (ORD)	V128 VHP BVT V97 CGT V7 BEBEE	1100-0300
Indianapolis (IND)	V128 VHP HYK V97	1100-0300
Knoxville (TYS) Louisville (SDF) Pittsburgh (PIT)	CVG206 IIU055 IIU(60–170 incl) V128 YRK V44 JPU V117 WISKE	1100-0300
	WISKE-STAR	1100-0300
DAYTONA BEACH Miami (MIA)	(110 and below) V3 MLB V437 PHK V267 BRIKL	1300-0300
FT LAUDERDALE METRO AREA (FLL, FXE,		
PMP) Cross City (CTY)	(at or below 50) DHP V97 LBV V157 LAL V7	1030-0300
	or (60–170) V511 LAL V7	1030-0300
Daytona Beach (DAB)	(at or below 100) PBI V3 SMYRA	1030-0300
	(110-170) V159 TBIRD MLB V3	1030-0300
Ft. Myers (FMY)(RSW)	(at or below 50) DHP V521	1030-0300
Ft. Pierce (FPR)	(at or below 100) V3or	1030-0300
	(110–170) V159 TBIRD	1030-0300
Gainesville (GNV)	(at or below 50) DHP V97 LBV V157 or	1030-0300
	(60–170) V511 LAL V157	1030-0300
Jacksonville (JAX)	(at or below 90) PBI V3 OMN V51 CRG or	1030-0300
	(130–170) ORL V267 CRG or	1030-0300
	V159 VRB V3 OMN V51 CRG	4000 0000
Lakeland (LAL)	(at or below 50) DHP V97 LBV110 V157 or	1030-0300
	(60–170) V511	1030-0300
Melbourne (MLB)	(at or below 100) V3or	1030-0300
	(110–170) FLL V159 TBIRD	1030-0300
Ocala (OCF)	(at or below 50) DHP V97 LBV V157 or	1030-0300
	(60–170) V511 LAL V157	1030-0300
Orlando (MCO)	(at or below 100) PBI V531 ORLor	1030-0300
	(110-170) V159 TBIRD V531 ORL	1030-0300
Sarasota/Bradenton (SRQ)	(60–170) LBV V97 ROGAN or	1030-0300
	(60–170) SRQ	1030–3000
	(at or below 50) DHP V97 ROGANor	1030-0300
	(60–170) ROGAN	1030-0300
Tallahassee (TLH)	(at or below 50) DHP V97 LBV V157 LAL V7 SZW. or	1030-0300
Tampa (TPA)	(60–170) V511 LAL V7 SZW (60–170) LBV BRDGE–STAR	1030-0300 1030-0300
	or (60–170) BRDGE BRDGE–STAR	1030-0300
	or (at or below 50) DHP V97 PIE	1030-0300
	or (60, 170, CBS or DME (DME IBH oquipped)	
	(60–170, GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR or	1030-0300
	(60–170, GPS or DME/DME-IRU equipped) LBV	
	DEAKK (RNAV)-STAR	1030-0300
Vero Beach (VRB)	(at or below 100) V3	1030-0300

Terminals	Route	Effective Times (UTC)
	or	1000 0000
FORT MYERS METRO AREA (RSW, FMY, APF, MKY, PGD)	(110–170) V159 TBIRD	1030-0300
Daytona Beach (DAB)	ORL	1030-0300
Ft. Lauderdale (FLL)	(RSW/FMY/PGD-prop/turbo) RSW V599or	1030-0300
	(RSW/FMY/PGD-turbo/jets) FORTL JINGL (RNAV)-STAR	1030-0300
	(APF/MKY prop/turbo) DRCT	1030-0300
	FORTL JINGL (RNAV)- STAR	1030-0300
Ft. Pierce (FPR)	V225	1030-0300
Gainesville (GNV)	V7 LAL V157	1030-0300
Jacksonville (JAX)	ORL V267 CRG	1030-0300
Lakeland (LAL)	V7 LAL	1030-0300
Melbourne (MLB)	V225 VRB	1030-0300
Miami (MIA)	V35 CURVE	1030-0300
	or (all others) CYY CYY-STAR	1030-0300
	or (Turbojets-GPS or DME/DME-IRU equipped) CYY	
Orlando (MCO)	SSCOT (RNAV)-STAR(Jets) LAL ORL	1030-0300
	(Turbo/Props) ORLor	1030-0300
	(Jets) LAL MINEE-STAR	1030-0300
	(Jets) DOWNN MINEE-STAR	1030-0300
	(Turbo/Props) DOWNN MINEE-STAR	1030-0300
Ocala (OCF)	V7 LAL V157	1030-0300
Tallahassee (TLH)	V7 SZW	1030-0300
Tampa (TPA)	(at or below 100) V35 PIEor	1030-0300
	or	1030-0300
	(GPS or DME/DME-IRU equipped) DEAKK	1020 0200
Vero Beach (VRB)	(RNAV)–STAR V225	1030-0300 1030-0300
GAINESVILLE (GNV)		
Ft. Lauderdale (FLL)	(100 and below) V157 NEWER	0000-2359
Ft. Myers (FMY)	(100 and below) V157 LAL V521(100 and below) V157 LAL V521	0000-2359
Miami (MIA)	(100 and below) V157 LBV V529 V35 CURVE (100 and below) V157 OCF V159	0000-2359
Orlando (ORL) Sarasota/Bradenton (SRQ)	(100 and below) V157 OCF V159(100 and below) V157 LAL	1100-0400 0000-2359
Tampa (TPA)	(100 and below) V157 CAL	0000-2359
JACKSONVILLE METRO AREA (JAX)	(100 dild below) V137 OOI V301 DADES	0000-2333
Miami (MIA)	(100 and below) V3 MLB V437 PHK V267 BRIKL	1300-0300
Tampa (TPA)	(100 and below) OCF V581 DADES	0000–2359
	(100 and below, GPS or DME/DME-IRU equipped) OCF V581 DADES (RNAV)-STAR	0000-2359
KEY WEST METRO AREA (NQX)		
Daytona Beach (DAB)	RSW ORL	1030-0300
Ft Myers (RSW) Fort Lauderdale (FLL)	EYW V539 GOODY(props) EYW V157 DHP	1030-0300
	(jets-all others) EYW DVALL-STARor	1030-0300
	(jets-/E,/G,/R,/J,/L,/Q) EYW CURSO	
	(RNAV)-STAR	1030-0300

Terminals	Route	Effective Times (UTC)
Melbourne (MLB)	EYW PHK	1030-0300
Miami (MIA)	(props) EYW V157	1030-0300
	(Jets-all others) EYW DVALL-STARor	1030-0300
	(Jets-/E,/G,/R,/J,/L,/Q) EYW CURSO (RNAV)-STAR	1030-0300
Orlando (MCO)	(props) EYW V225 RSW MINEE-STAR	4000 0000
B 1 B 1 (BB)	(Jets) EYW V225 RSW LAL MINEE-STAR	1030-0300
Palm Beach (PBI)	EYW PHK	1030-0300
Sarasota/Bradenton (SRQ)	(at or below 100) EYW V225 RSW V35 MURD0 or	1030-0300
T-U-bases (TUI)	(110–170) EYW V225 RSW V7 ROGAN	4000 0000
Tallahassee (TLH)	EYW V225 RSW V7 SZW	1030-0300
Tampa (TPA)	(at or below 100) EYW V225 RSW V35 PIE or	
	(110-170) EYW V225 RSW V7 ROGAN	
	BRDGE-STARor	1030-0300
	(110–170, GPS or DME/DME-IRU equipped) EYW V225	
Vero Beach (VRB)	RSW V7 ROGAN DEAKK (RNAV)-STAR EYW PHK V51	1030-0300 1030-0300
LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16)		
Ft Lauderdale (FLL)	(Jets only-all others) V7 RSW FORTL-STAR	1030-0300
Ft. Myers (FMY)	V521	1030-0300
Ft Pierce (FPR)	(at or below 140) V441 DEARY V159 or	1030-0300
	(150-170) VRB	1030-0300
Key West (EYW)	V7 RSW V225	1030-0300
Miami (MIA)	(100 and below) V157 LBV V529 V35 CURVE or	
	(all others) CYY CYY-STAR or	1030-0300
	(Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR	
Opa Locka (OPF)	(props/turbo) V511 NEWER or	
	(Turbojets-GPS or DME/DME-IRU equipped) RSW CYY SSCOT (RNAV)-STAR	
Vero Beach (VRB)	(at or below 140) V441 DEARY V159 or	1030-0300
	(150-170) VRB	1030-0300
West Palm Beach (PBI) LEXINGTON (LEX)	PHK	1030-0300
Atlanta (ATL) LOUISVILLE	HYK V53 AZQ SOT WHINZ-STAR	
Kansas City (MKC)	V4 PXV V190 SGF TYGER-STAR	0000-2359
Wichita (ICT) MEMPHIS	V4 PXV V190 SGF V132 CNU V350	0000–2359
Chicago Midway (MDW)	SPI MOTIF-STAR	0000-2359
Chicago O'Hare (ORD)	MAW V313 PNT V227 PLANOor	1100-0300
	PNT V227 PLANO	0000-2359
MIAMI METRO AREA (MIA, HWO, OPF, TMB, HST, X51)		
Cross City (CTY)	V97 LBV V157 LAL V7or	1030-0300
	LAL	1030-0300

Terminals Daytona Beach (DAB)	Route (at or below 100) PBI V3 SMYRA	Effective Times (UTC) 1030-0300
Daytona Beach (DAB)	or	1030-0300
Ft Pierce (FPR)	(110–170) V437 MLB V3	1030-0300 1030-0300
	(110–170) V267 PHK V51 VRBor	1030-0300
Gainesville (GNV)	FPR	1030-0300
Jacksonville (JAX)	(at or below 90) PBI V3 OMN V51 CRG	1030-0300 1030-0300
	(at 110) PHK V437 MLB V3 OMN V51 CRG or	1030-0300
	(130-170) V267 CRG	1030-0300
Lakeland (LAL)	V97 LBV V157 LALor	1030-0300
	LAL	1030-0300
Melbourne (MLB)	(at or below 100) V3or	1030-0300
	(120-170) PBI V531 TBIRD	1030-0300
New Orleans (MSY)	(below FL180) LBV SRQ AM	1100-0300
Ocala (OCF)	DHP V97 LBV V157or	1030-0300
Orlando (MCO)	LAL	1030-0300
Overwater Routes to the Northeast	(110–170) V267 PHK GOOFY–STAR PERMT ILM or PERMT DIW	1030-0300
Sarasota/Bradenton (SRQ)	V97 ROGAN	1030-0300
Tallahassee (TLH)	DHP V97 LBV V157 LAL V7 SZW	1030-0300
Tampa (TPA)	V97 LBV BRDGE-STARor	1030-0300
	(GPS or DME/DME-IRU equipped) V97 LBV	1020 0200
Vero Beach (VRB)	DEAKK(at or below 100) PBI V3	1030-0300 1030-0300
vero Deden (VID)	or	
	(110–170) V267 PHK V51or	1030-0300
NASHVILLE	(110–170) VRB	1030-0300
Tallahassee (TLH)	RQZ TDG TGE RRS	1100-2300
DRLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB)	.,42 .32 .32	1100 2000
Ft Lauderdale (FLL)	(at or below 100) PHK V267 BRIKL or	1030-0300
	(110-170) PHK V267 BRIKL	1030-0300
Ft Pierce (FPR)	V159 VRB	1030-0300
Key West (EYW) Miami (MIA)	RSW V225(at or below 100) PHK V267 BRIKL	1030-0300 1030-0300
West Palm Beach (PBI)	(props/turbo props) V159 VRB V295 STOOP V492	1030-0300
	or (Jets only) PHK	1030-0300
	or (Turbojets-GPS or DME/DME-IRU equipped) DEARY VRB FRWAY (RNAV)-STAR	
PALM BEACH METRO AREA (PBI, BCT,		
LNA, UTX, SUA) Cross City (CTY)	(at or below 140) V531 BAIRN OCF V159	
	or (150–170) LAL V7	1030-0300

		Times
Terminals	Route	(UTC)
Daytona Beach (DAB)	V3 SMYRA	1030-0300
	or	
	V531 TBIRD MLB V3 SMYRA	1030-0300
Ft. Myers (RSW)	RSW	1030-0300
Jacksonville (JAX)	(at or below 110) V3 VRB V51 CRG	
	(130–170) ORL V267 CRG	1030-0300
Lakeland (LAL)	LBV V157	1030-0300
	or	
Melbourne (MLB)	(SUA Dep) LAL(at or below 100) V3	
Welbourne (WLD)	or	
	(120–170) PBI V531 TBIRD	1030-0300
Ocala (OCF)	(at or below 140) V531 BAIRN OCF	
	Or (450, 470) LAL 005	
Orlando (ORL/MCO)	(150–170) LAL OCF V531 BAIRN GOOFY–STAR	1030-0300
Overwater Routes to the Northeast	A699 STIFF AR7	1030-0300
Sarasota/Bradenton (SRQ)	LBV V97 ROGAN	
	or	
Tallahasasa (TLH)	(SUA Dep) SRQ (at or below 140) V531 BAIRN OCF V159 CTY V7	
Tallahassee (TLH)	SZW	
	or	
	(150–170) LAL V7 SZW	1030-0300
Tampa (TPA)	LBV BRDGE-STAR	
	Or	1020 0200
	BRDGE BRDGE-STAR	1030-0300
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK	
	(RNAV)-STAR	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) LBV DEAKK (RNAV)-STAR	1000-0300
Vero Beach (VRB)	(at or below 100) PBI V3	1000-0300
	or	
	(110–170) V531 TBIRD	1030-0300
From STUART (SUA) only: Cross City (CTY)	(at or below 120) BAIRN OCF V159	
01033 Oity (011)	or	
	(130-170) LAL V7	1030-0300
Lakeland (LAL)	TBIRD V531 ODDEL V441 LAL	1030-0300
Ocala (OCF)	TBIRD V531 BAIRN(at or below 120) BAIRN OCF V159 CTY V7 SZW	1030-0300
Tallahassee (TLH)	or	
	(130-170) LAL V7 SZW	1030-0300
SARASOTA/BRADENTON AREA (SRQ)		
Ft Lauderdale (FLL)	(at or below 100, below 210 kts) RSW V599	
	NEWER	
	or	
	(110-170), below 210 kts) LBV V157 NEWER	
	(at or above 210 kts) V579 RSW V7 KUBIC	
	or	
	(all others) RSW FORTL-STAR	1030-0300
	or (/E, /G, /R, /J, /L, /Q) RSW SWAGS	
	(RNAV)-STAR	
Ft Myers (RSW)	V579 RSW	1030-0300
Orlando (MCO)	LAL MINEE-STAR	1030-0300
West Palm Beach (PBI) TALLAHASSEE AND CROSS CITY AREA	SABEE JOOOE WLACE (RNAV)-STAR	
Ft Myers (FMY)	(120 and below) CTY V7 LAL V521	1100-0300
Miami (MIA)	(170 and below) LAL V157 LBV V529 V35 CURVE	1300-0300

Terminals TAMPA/ST PETERSBURG METRO AREA	Route	Effective Times (UTC)
(TPA, SPG, PIE, TPF)		
Ft Lauderdale (FLL)	(Jets only) RSW V7 KUBIC FLL	
	(all others) RSW FORTL-STAR	
	Or (Turbonron all others) DSW FORTL STAR	1030-0300
	(Turboprop-all others) RSW FORTL-STAR or	1030-0300
	(props only) V509 HALLR V511 NEWER	1030-0300
	or (GPS or DME/DME-IRU equipped) SABEE RXXAN	
	JINGL (RNAV)-STAR	
Ft Myers (RSW)	PIE V579 RSW	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) SRQ	
	TYNEE (RNAV)-STAR	
Ft Pierce (FPR)	(at or below 140) V441 DEARY V159	
	(150–170) VRB	1030-0300
Key West (EYW)	PIE V35 RSW V225	
	or VEZO BOW VOOE	4000 0000
Miami (MIA)	V579 RSW V225 RSW V35 CURVE	1030-0300 1030-0300
Wildill (WIA)	or	1030-0300
	(all others) CYY CYY-STAR	1030-0300
	(Turbojets-GPS or DME/DME-IRU equipped) CYY	
	SSCOT (RNAV)-STAR	
Opa Locka (OPF)	(props) V509 HALLR V511 NEWER	
	(turbo) RSW V7 KUBIC	
	or	
	(turbo) V509 HALLR V511 NEWER	1030-0300
	or	4000 0000
	(jets) RSW CYY CYY–STAR	1030-0300
	(Turbojets-GPS or DME/DME-IRU equipped) RSW	
	CYY SSCOT (RNAV)-STAR	
Orlando (MCO)	LAL MINEE-STAR (Max alt. 12,000 ft)	1030-0300
Vero Beach (VRB)	(at or below 140) V441 DEARY V159	
	(150–170) VRB	1030-0300
West Palm Beach (PBI)	RSW PHK	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	SABEE JOOOE WLACE (RNAV)-STAR	

NORTHEAST

Traffic entering ZTL airspace V97 and East to V66 file:

PREFERRED IFR ROUTES

SPECIAL LOW ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA (JETS AND TURBOPROPS)

VXV AWSON-STAR......SOT ODF AWSON-STAR.....

	SUG ODF AWSON-STAR	
	SPA ODF AWSON-STAR	
	ELW ODF AWSON-STAR	
SOUTHEAST		
Traffic entering ZTL airspace South of V66 to	East of a line from ATL to MGR file:	
	IRQ TRBOW-STAR	
	DBN TRBOW-STAR	
	MCN TRBOW-STAR	
SOUTHWEST		
Traffic entering ZTL airspace South of V278 to	West of a line from ATL to MGR file:	
	LDK V66 LGC MIKEE-STAR	
	MEI V56 MGM LGC MIKEE-STAR	
	MVC MGM LGC MIKEE-STAR	
	CEW MGM LGC MIKEE-STAR	
	SZW PZD CSG LGC MIKEE-STAR	
NORTHWEST		
Traffic entering ZTL airspace on V278 and No	rth to West of V97 file:	
	IGB V278 VUZ V417 MAYES V325 DALAS	
	HAB V159 VUZ V417 MAYES V325 DALAS	
	MSL V325 DALAS	
	DCU V541 GAD V325 DALAS	
	RQZ BUNNI-STAR	
	BNA V5 GQO BUNNI-STAR	
	SYI V67 GQO BUNNI–STAR	
	BWG V243 GQO BUNNI-STAR	
	LVT V51 HCH V333 GQO BUNNI-STAR	
	HYK V333 GQO BUNNI-STARALTITUDE DIRECTIONAL ROUTES	Effective
	HYK V333 GQO BUNNI-STARALTITUDE DIRECTIONAL ROUTES	Effective Times (UTC)
	HYK V333 GQO BUNNI-STAR ALTITUDE DIRECTIONAL ROUTES Route	
SPECIAL LOW Low Altitude IFR routes for traffic overflying th	HYK V333 GQO BUNNI-STAR ALTITUDE DIRECTIONAL ROUTES Route	Times (UTC)
SPECIAL LOW Low Altitude IFR routes for traffic overflying th	ALTITUDE DIRECTIONAL ROUTES Route e Charlotte Metro Area:	Times (UTC) 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only)	Times (UTC) 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only)	Times (UTC) 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying the	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) ffic overflying Atlanta Metro Area:	Times (UTC) 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) ffic overflying Atlanta Metro Area: RMG V154 MCN (70 MSL)	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) ffic overflying Atlanta Metro Area:	Times (UTC) 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) ffic overflying Atlanta Metro Area: RMG V154 MCN (70 MSL)	Times (UTC) 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) ffic overflying Atlanta Metro Area: RMG V154 MCN (70 MSL)	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) ffic overflying Atlanta Metro Area: RMG V154 MCN (70 MSL)	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying the state of the state	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) ffic overflying Atlanta Metro Area: RMG V154 MCN (70 MSL)	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound	Route Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) ffic overflying Atlanta Metro Area: RMG V154 MCN (70 MSL)	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound Northbound	Route Charlotte Metro Area: PSK V37 CAE (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC)
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC)
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound Northbound Terminals ATLANTA (ATL) Austin (AUS) Baltimore (BWI)	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK EAONE SPA J14 RIC OTT–STAR	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC)
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound	Route Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC) 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound Northbound Terminals ATLANTA (ATL) Austin (AUS) Baltimore (BWI) Boca Raton (BCT)	Route Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC)
SPECIAL LOW Low Altitude IFR routes for traffic overflying the state of the state	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MICO Verflying Atlanta Metro Area: RMG V154 MCN (70 MSL) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC) 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound Northbound Terminals ATLANTA (ATL) Austin (AUS) Baltimore (BWI) Boca Raton (BCT) Boston (BOS)	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC) 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MICO Verflying Atlanta Metro Area: RMG V154 MCN (70 MSL) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC) 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound Northbound Terminals ATLANTA (ATL) Austin (AUS) Baltimore (BWI) Boca Raton (BCT) Boston (BOS)	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC) 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound Northbound Terminals ATLANTA (ATL) Austin (AUS) Baltimore (BWI) Boca Raton (BCT) Boston (BOS)	Route Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK EAONE SPA J14 RIC OTT–STAR (GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK PRRIE (RNAV)—STAR EATWO GRD J209 RDU J207 FKN J79 JFK ORW–STAR (/E/G/R/S/L/Q only) NOONE J89 IIU OKK FISSK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC) 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound Northbound Terminals ATLANTA (ATL) Austin (AUS) Baltimore (BWI) Boca Raton (BCT) Boston (BOS)	Route Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC) 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound Northbound Terminals ATLANTA (ATL) Austin (AUS) Baltimore (BWI) Boca Raton (BCT) Boston (BOS)	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC) 1100-0300 1100-0300
SPECIAL LOW SPECIAL LOW Low Altitude IFR routes for traffic overflying the second se	Route Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC) 1100-0300 1100-0300 1100-0300
SPECIAL LOW SPECIAL LOW Low Altitude IFR routes for traffic overflying the second se	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-0300 1100-0300 1100-0300 1100-0300 Effective Times (UTC) 1100-0300 1100-0300 1100-0300
SPECIAL LOW Low Altitude IFR routes for traffic overflying th Low Altitude IFR single-direction routes for tra Southbound Northbound Terminals ATLANTA (ATL) Austin (AUS) Baltimore (BWI) Boca Raton (BCT) Boston (BOS)	Route e Charlotte Metro Area: PSK V37 CAE (90 and 100 only) SPA V54 LOCAS (90 and 100 only) GRD V66 SDZ (30–100 only) MCN LOGEN NELLO (70 MSL) MCN LOGEN NELLO (70 MSL, RNAV) HIGH ALTITUDE Route WEONE J239 MEI AEX LFK	Times (UTC) 1100-030 1100-030 1100-030 1100-030 Effective Times (UTC) 1100-030 1100-030 1100-030

Terminals Chicago O'Hare (ORD)	Route (non-Advanced RNAV only) CADIT GLAZR HOPAP	Effective Times (UTC)
	VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR	1100-0300
	or (/E/G/R/J/L/Q only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR or	1100-0300
Cincinnati (CVG) Charlotte (CLT) Cleveland (CLE)	J89 IIU MZZ OXI	1100-0300 1100-0300
Columbus (CMH)	NOTWO J43 VXV J91 HNN BREMN-STAR WETWO VUZ J41 MEM RZC PER GCK J154 RYLIE	1100-0300
Detroit/Wayne (DTW)Fort Lauderdale (FLL)	DANDD-STARSUMMT (RNAV)-DP VXV J91 HNN WEEDA-STAR SOONE J89 HITTR PIE FORTL-STAR	1100-0300 1100-0300
Fort Myers (FMY and RSW)	or (GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK JINGL (RNAV)-STAR (Turbojets-GPS or DME/DME-IRU equipped)	1100-0300
Gainesville (GNV)	THRSR (RNAV)-DP LUCKK SZW TYNEE (RNAV)-STARSOONE J89 OTK	1100-0300 1100-0300
Houston (HOU)	(DME/DME-IRU or GPS-equipped) JAMMR AEX ROKIT (RNAV)-STAR or (Non-advanced NAV only) JAMMR MEI AEX DAS-STAR	
Houston (IAH)	(Turbojets-DME/DME-IRU or GPS-equipped) JAMMR AEX TXMEX (RNAV)-STAR	
Kennedy (JFK) La Guardia (LGA) Louisville (SDF) Marco Island (MKY)	EATWO GRD J209 ORF J121 SIE CAMRN-STAR EAONE AHN J208 HPW J191 PXT KORRY-STAR NOONE HCH DARBY-STAR SOTWO J43 SZW PIKKR (RNAV)-STAR or	1100-0300 1100-0300 1100-0300
Miami (MIA)	SOONE J89 J75 TEPEE ZEILR-STAR	1100-0300
Minneapolis (MSP)	(RNAV)-DP LUCKK SZW SSCOT (RNAV)-STAR NOONE J89 IIU J89 BAE EAU-STAR SOTWO J43 SZW PIKKR (RNAV)-STAR	1100-0300 1100-0300
Newark (EWR)	GSO J14 J51 FAK DYLIN-STARor (GPS or DME/DME-IRU equipped) GSO J14 J51	1100-0200
Orlando (MCO)	FAK PHLBO (RNAV)-STAR SOONE J89 OTK LEESE-STAR or	1100-0200 1100-0300
Orlando (ORL)	(GPS or DME/DME-IRU equipped) SOONE J89 OTK PIGLT (RNAV)-STAR(GPS or DME/DME-IRU equipped) SOONE J89	1100-0400
Philadelphia (PHL) Raleigh-Durham (RDU) Sarasota/Bradenton (SRQ) Tampa (TPA)	OTK PIGLT (RNAV)-STAR EAONE SPA J14 J51 FAK DPNT-STAR EATWO IRQ CAE BUZZY-STAR J43 SZW CLAMP-STAR SOTWO J43 SZW DARBS-STAR	1100-0400 1100-0300 1100-0300 1100-0300 1100-0300
Teterboro (TEB)	(GPS or DME/DME-IRU equipped) SOTWO J43 SZW FOXXX (RNAV)-STAR(Advanced Nav Only) EAONE SPA J14 J51 FAK	1100-0300
	JAIKE-STAR or (Non-Advanced Nav Only) EAONE SPA J14 J51 FAK BRV AML J227 J49 J70 LVZ LVZ-STAR	1100-0300

Terminals Washington Natl (DCA)	Route (GPS or DME/DME-IRU equipped) EAONE SPA	Times (UTC)
naomigion nati (507)	J14 RIC OJAAY (RNAV)–STAR	1100-0300
West Palm Beach (PBI)	EAONE SPA J14 RIC IRONS-STAR(Turbojets-GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK WLACE	4400 0000
Windsor Locks (BDL)	(RNAV)-STAR EATWO GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR	1100-0300 1100-0300
AUGUSTA (AGS) Kennedy (JFK)BIRMINGHAM (BHM)	GRD J209 ORF J121 SIE CAMRN-STAR	1100-0300
Baltimore (BWI)	OT (CRS or DMF (DMF IRIL oppinged) ATL 144 RIG	
Chicago Midway (MDW)	(GPS or DME/DME-IRU equipped) ATL J14 RIC RAVNN (RNAV)-STAR(/E/G/R/J/L/Q only) VUZ IIU OKK FISSK (RNAV)-STAR	1100-0300
	or (non-advanced RNAV only) VUZ IIU OKK V285	
Chicago O'Hare (ORD)	CLEFT OXI CGT	1100-0300 0000-2359
Houston (HOU)	BNA CCT VHP FWA MIZAR-STAR(DME/DME-IRU or GPS-equipped) MEI AEX ROKIT (RNAV)-STAR	
Houston (IAH)	(Non-advanced NAV only) MEI AEX DAS-STAR (Turbojets-DME/DME-IRU or GPS-equipped) MEI AEX TXMEX (RNAV)-STAR	
Washington Dulles (IAD)	(Non-advanced NAV only) MEI AEX DAS-STAR ATL J14 J51 FAK COATT-STAR ATL J14 RIC IRONS-STAR	
CHARLESTON (CHS)	(GPS or DME/DME-IRU equipped) ATL J014 RIC OJAAY (RNAV)-STAR	
Baltimore (BWI)	J79 TYI J40 RIC OTT-STAR or	1100-0400
Detroit/Wayne (DTW)Houston (HOU)	(GPS or DME/DME-IRU equipped) J79 TYI J40 RIC RAVNN (RNAV)-STAR BKW GEMNI-STAR (GPS or DME/DME-IRU equiped) MGM J37 SJI	1100-0400
	or (Non-advanced NAV only) MGM J37 SJI AEX	
Houston (IAH)	DAS-STAR(DME/DME-IRU or GPS-equipped) MGM 137 SJI WOLDE (RNAV)-STAR	
	or (Non-advanced NAV only) MGM J37 SJI AEX DAS-STAR	
Philadelphia (PHL)	J121 SWL SWL034 RADDS VCN-STAR J55 FLO J207 RDU FAK COATT-STAR or	1100-0400
OUADI OTTE (OLT)	(GPS or DME/DME-IRU equipped) J55 FLO J207 RDU FAK BARIN-STAR	
CHARLOTTE (CLT) Baltimore (BWI)	MERIL RDU J52 RIC OTT-STAR	1100-0300
Poston (POS)	(GPS or DME/DME-IRU equipped) MERIL RDU J52 RIC RAVNN (RNAV)-STAR MERIL RDU J207 FKN J79 JFK ORW-STAR	1100-0300
Boston (BOS) Chicago Midway (MDW)	SADIE HNN FWA GOSHEN-STAR	1100-0300

Terminals	Route	Effective Times (UTC)
Torrinials	or	(0.0)
Chicago O'Hare (ORD)	SADIE HVQ APE J178 FWA GOSHEN-STAR (/E/G/R/J/L/Q only) SADIE FLM HEVAN MZZ	1100-0300
emeage e naie (enz)	ROYKO (RNAV)-STAR	1100-0300
Cincinnati (CVG)	or (non-advanced RNAV only) SADIE FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR(RNAV only) HMV JAKIE (RNAV)-STAR	1100-0300
Denver (DEN)	(all others) HMV HARDU-STARHARAY SPA SPA270 VXV125 VXV BNA FAM J112	
Detroit/Wayne (DTW)	BUM J110 GCK J154 RYLIE DANDD-STAR HUGO-DP ROBAY BKW GEMNI-STAR	1100-0300
	(DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX ROKIT (RNAV)-STARor	
	(Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR or	
	(DME/DME-IRU or GPS equipped) AHN MGM J37 SJI Columbia (RNAV)-STAR	
Houston (IAH)	(Turbojets-DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX TXMEX (RNAV)-STAR	
	(Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR	
Kennedy (JFK)	MERIL RDU J209 ORF J121 SIE CAMRN-STAR	4400 0300
La Guardia (LGA) Louisville (LOU)	MERIL RDU J55 HPW J191 PXT KORRY-STAR SADIE LOZ V310 IIU	1100-0300 1100-0300
Newark (EWR)	RDU FAK DYLIN-STARor	1100-0300
	(GPS or DME/DME-IRU equipped) RDU FAK PHLBO (RNAV)-STAR	1100-0300
Norfolk (ORF)	MERIL RDU TYI CVI V1 DRONE	1100-0300
Philadelphia (PHL)	MERIL RDU248 J51 FAK DPNT-STAR	1100-0400
Richmond (RIC)	MERIL RDU LVL (Advanced Nav Only) MERIL RDU FAK JAIKE-STAR or	1100-0300
	(Non-Advanced Nav Only) MERIL RDU FAK BRV	
Washington Dulles (IAD)	AML J227 J49 J70 LVZ LVZ-STAR MERIL RDU248 J51 FAK COATT-STAR	1100-0300 1100-0300
Washington Natl (DCA)	MERIL RDU J52 RIC IRONS-STAR	1100-0300
	(GPS or DME/DME-IRU equipped) MERIL RDU J52 OJAAY (RNAV)-STAR	
Windsor Locks (BDL)	MERIL RDU J207 FKN J79 JFK DPK DPK-STAR	
CHATTANOOGA (CHA)		
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)—STAR or	0000–2359
	(non-advanced RNAV only) GLAZR HOPAP VOSTK	0000 0050
CINCINNATI (CVG)	HEVAN MZZ MZZ344/33 OXI KNOX-STAR	0000–2359
Albany (ALB)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB	
Allentown (ABE)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY JST HAR	
Atlanta (ATL)	(RNAV only) BLUEGRASS-DP BWG ERLIN (RNAV)-STAR	
Baltimore (BWI)	or (all others) BLUEGRASS-DP BWG ROME-STAR V128 YRK HVQ J8 CSN OTT-STAR	
	or	

Terminals	Route	Times (UTC)
	(GPS or DME/DME-IRU equipped) V128 YRK HVQ	(/
	J8 CSN RAVNN (RNAV)-STAR	
Birmingham (BHM) Boca Raton (BCT)	BLUEGRASS-DP TRFWA LVT SYI VUZ(GPS or DME/DME-IRU equipped)	
Boca Raton (BCT)	BLUEGRASS-DP TRFWA NOTWO WALET HITTR	
	LATHY PRRIE (RNAV)-STAR	
	or	
	(GPS or DME/DME-IRU equiped) BLUEGRASS-DP	
Boston (BOS)	HYK VXV J43 ATL J89 OTK PRRIE (RNAV)-STAR.	
Boston (BOS)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER-STAR	
Chicago O'Hare (ORD)	(Advanced NAV only) MIE MZZR ROYKO	
	(RNAV)-STAR	
	Or	
	(Non-Advance Nav only) DQN FWA KNOX-STAR or	
	DQN FWA WATSN (RNAV)-STAR	
Dallas/Ft. Worth (DFW)	IIU PXV J131 LIT BYP	
Fort Lauderdale (FLL)	(GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO OTK JINGL (RNAV)-STAR	
	or	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL J89	
5	HITTR J75 FORTL-STAR	
Fort Myers (FMY)	(Turbojets-GPS or DME/DME-IRU equipped) HYK VXV J43 SZW TYNEE (RNAV)-STAR	
Fort Myers (RSW)	(GPS or DME/DME–IRU equipped) HYK VXV J43	
, , , , ,	SZW TYNEE (RNAV)-STAR	1100-0300
Harrisburg (MDT)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Houston (HOII)	AHTIY JST HAR	
Houston (HOU)	(GPS or DME/DME-IRU equiped) LIT J180 SWB ROKIT (RNAV)-STAR	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
Haveten (IAH)	DAS-STAR	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
Landan and CLAND	DAS-STAR	
Jackson (JAN) La Guardia (LGA)	BLUEGRASS-DP TRFWA LVT SYI VUZ JAN (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
24 44414 (241)	AHTIY PSB MILTON-STAR	1000-1800
Manchester (MHT)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Maran Jaland (MI/O/)	AHTIY PSB ALB EEN	
Marco Island (MKY) Miami (MIA)	HYK VXV J43 SZW PIKKR (RNAV)-STAR (Turbojets-GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO SZW SSCOT	
	(RNAV)-STAR	
	Or	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL SZW J43 PIE CYY-STAR	
Mobile (MOB)	BLUEGRASS-DP TRFWA LVT SYI VUZ SJI	
Naples (APF)	HYK VXV J43 SZW PIKKR (RNAV)-STAR	
Newark (EWR) Newburgh (SWF)	ROD J29 J584 SLT FQM-STAR(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Hombulgii (SWI)	AHTIY PSB J49 HNK DNY V483 FILPS	
New Orleans (MSY)	BLUEGRASS-DP TRFWA LVT SYI VUZ J22 MEI	
	RYTHM-STAR	4406
Orlando Executive (ORL)	HYK VXV J99 IRQ J85 AMG LEESE-STAR	1100-0300
	(GPS or DME/DME-IRU equipped) HYK VXV J99	
	IRQ J85 AMG SHEMP MTATA PIGLT	
	(RNAV)-STAR	1100-0400
Orlando Intl (MCO)	HYK VXV J99 IRQ J85 AMG LEESE-STAR	1100-0300

or

		Effective
Terminals	Pouto	Times
Terminais	Route (GBS or DME /DME IBIL oquipped) HVK VVV 100	(UTC)
	(GPS or DME/DME-IRU equipped) HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)-STAR	1100-0400
Philadelphia (PHL)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY JST BUNTS-STAR	1100-0400
Phoenix (PHX)	FAM J78 ABQ J18	
	FAM J78 IRW J74 SJN J18	
Portland (PWM)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 ALB ENE	
Providence (PVD)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 HNK TEDDY-STAR	
Sarasota/Bradenton (SRQ)	HYK VXV J43 SZW CLAMP-STAR	
Tampa (TPA)	HYK VXV J43 SZW DARBS-STAR or	
	(GPS or DME/DME-IRU equipped) HYK VXV J43	
Washington Dulles (IAD)	SZW FOXXX (RNAV)-STAR V128 YRK HVQ ROYIL-STAR	
	or V128 YRK HVQ SHANON (RNAV)-STAR	
Washington Natl (DCA)	V128 YRK HVQ WZRRD-STAR	
	V128 YRK HVQ ELDEE (RNAV)-STAR	
West Palm Beach (PBI)	(GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO OTK WLACE or	
	(GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP HYK VXV J43 ATL J89 OTK	
Miller Berne (Occupation (AVD)	WLACE	
Wilkes Barre/Scranton (AVP)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Windsor Locks (BDL)	ANTIY PSB LVZ(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY PSB RKA SWEDE SWEDE-STAR	
DAYTONA BEACH (DAB)		
Charlotte (CLT)	CRG J51 SAV J207 FLO CTF-STARor	
	(Turbojets-GPS or DME/DME-IRU equipped) CRG	
FORT LAUDERDALE METRO AREA	J51 SAV HUSTN (RNAV)-STAR	
(FLL, FXE, PMP)		
Albany (ALB)	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE	
	V487 CANAN V130	
Atlanta (ATL)	J20 ORL J81 CHESN SINCA-STARor	1000-0300
	(RNAV only) J20 ORL J81 CHESN CANUK (RNAV) -STAR	1000-0300
Baltimore (BWI)	(at or below 310) J20 ORL J53 CRG J51 SAV J55	1000 0000
	CHS J165 RIC OTT-STAR	1000-0300
	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40 RIC OTT-STAR	1000-0300
	Or (at an above 220) 1442 ODC 154 CAV 155 OUC	
	(at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC OTT-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) (at or below	
	310) J20 ORL J53 CRG J51 SAV J55 CHS J165	
	RIC RAVNN (RNAV)-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) (at or above	
	330) J113 CRG J151 SAV J55 CHS J165 RIC	
	RAVNN (RNAV)-STARor	1000-0300
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) ZAPPA PERMT AR16 ILM J40 RIC	4000
	RAVNN (RNAV)-STAR	1000-0300

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		Effective
Terminals	Route	Times (UTC)
Bedford (BED)	(Water–Turbojets) ZAPPA PERMT AR16 ILM	(010)
Bedioid (BEB)	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM-STAR	
	or	
	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18	
	DIW WETRO CEBEE SWL J174 HTO ORW	
	GRAYM-STAR	
Beverly (BVY)	(Water-Turbojets) ZAPPA PERMT AR16 ILM	
	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM-STAR	
	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18	
	DIW WETRO CEBEE SWL J174 HTO ORW	
	GRAYM-STAR	
Boston (BOS)	(Water-Turbojets) ZAPPA PERMT AR16 ILM	
	KEMPR SBY J79 JFK ORW-STAR	1000-0300
	or	
	(at or below 290) J20 ORL J53 CRG J51 SAV J55	4000 0000
	CHS J79 JFK ORW-STAR	1000-0300
	(at or above 330) J113 CRG J51 SAV J55 CHS	
	J79 JFK ORW-STAR	1000-0300
Bridgeport (BDR)	(Water-Turbojets) ZAPPA WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE V139 RICED	
	MAD193 KEYED	
Charlotte (CLT)	(at or below 290) J20 ORL J53 CRG J51 SAV	
	J207 FLO CTF-STAR	1000-0300
	(at or above 330) J113 CRG J51 SAV J207 FL0	
	CTF-STAR	1000-0300
	or	
	(at or above 330-Turbojets-GPS or	
	DME/DME-IRU equipped) J113 CRG J51 SAV	
	HUSTN (RNAV)-STAR	1000-0300
	or (at or below 290-Turbojets-GPS or	
	DME/DME-IRU equipped) J20 ORL J53 CRG	
	J51 SAV HUSTN (RNAV)-STAR	1000-0300
Chicago Midway (MDW)	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK	
	FISSK (RNAV)-STAR	1000-0300
	or	
	(non-advanced RNAV only) CTY J91 ATL J89 IIU	4000 0000
Chicago O'Hare (ORD)	OKK V285 CLEFT OXI CGT	1000-0300
Cilicago o Tiare (OND)	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	
	(RNAV)-STAR	1000-0300
	or	
	(non-advanced RNAV only) LAL CTY J91 ATL	
	CADIT GLAZR HOPAP VOSTK HEVAN MZZ	
	MZZ344/33 OXI KNOX-STAR	1000-0300
Cincinnati (CVG)	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR (all others) CTY J91 VXV HARDU-STAR	1000-0300
Circiniati (CVG)	or	1000-0300
	(RNAV) only) CTY J91 VXV JAKIE (RNAV)-STAR	
Cleveland (CLE)	J20 ORL J53 IRQ J85 HVQ J85 TVT040 KEATN	
	KEATN-STAR	1000-0300
Columbus (CMH)	J20 ORL J81 IRQ J53 SPA J85 HVQ HNN	4000 0000
Cross City (CTV)	BREMN-STAR	1000-0300 1030-0300
Cross City (CTY)	or	1030-0300
	CTY	
Dallas/Fort Worth (DFW)	LAL J73 SZW J2 CEW J50 AEX CQY	1000-0300
	or	4000 005
	SRQ Q100 REDFN Q105 HRV J58 AEX CQY	1000-0300

Terminals	Route	Effective Times (UTC)
Danbury (DXR)	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR	(0.0)
Daytona Beach (DAB) Denver (DEN)	J20 LLNCH MLB V3 LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE	1030-0300
	DANDD-STARor or SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA	1030-0300
Detroit/Wayne (DTW)	QUAIL-STAR J20 ORL J53 SPA HNN WEEDA-STAR	1030-0300
Ann Arbor (ARB)	J20 ORL J81 IRQ J99 VXV J43 FLM DQN CRUXX-STAR	
Pontiac (PTK), Windsor (CYQG) Willow Run (YIP)	J20 ORL J81 IRQ J85 DJB LLEEO-STAR J20 ORL J81 IRQ J99 VXV J43 FLM DQN	
V (755)	CRUXX-STAR	1000-0300
Young (DET) East Hampton (HTO)	J20 ORL J81 IRQ J85 DJB LLEEO-STAR(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121	1000-0300
Farmingdale (FRG)	(Water) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR	
Gainesville (GNV)	J85 LLAKE LAL GNV or LAL GNV (Water–Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO	1030-0300
Hartford (HFD)	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1	
Houston (IAH)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR or	1000-0300
Houston (HOU)	(Non-advanced NAV only) LAL J73 SZW J2 CEW-030 J50 AEX DAS-STAR(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	1000-0300
Houston (Hoo)	COLUMBIA (RNAV)-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR or	1000-0300
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR	
Indianapolis (IND)	CTY J91 ATL J89 IIU DECEE–STAR(Water–Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC	1000-0300
Jacksonville (CRG) Kennedy (JFK)	J20 ORL J53(Water–Turbojets) ZAPPA WOLFO AR18 WETRO	1030-0300
	CEBEE SWL J121 SIE CAMRN-STAR	1000-0300
	(at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STARor	1000-0300
	(at or above 330) J113 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR	1000-0300
La Guardia (LGA)	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR or	1000-0300
	(at or below 290) J20 ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR or	1000-0300
Lawrence (LWM)	(at or above 330) J113 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18	1000-0300
	DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	

Terminals	Route	Effective Times (UTC)
Terminas	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD	(010)
Louisville (SDF)	GRAYM-STAR CTY J91 ATL HCH DARBY-STAR	1000-0300
Manchester (MHT)	(Water–Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN	1000 0000
Melbourne (MLB)	J20 LLNCH MLB	1030-0300
Minneapolis (MSP) Montreal (CYUL)	CTY J91 ATL J89 BAE EAU-STAR (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR	1000-0300
Nantucket (ACK)	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46	
Nashville (BNA)	CTY J91 ATL GQO VOLLS-STAR(Water-Turbojets) ZAPPA PERMT AR16 ILM J109	1000-0300
	FAK DYLIN-STAR	1000-0300
	(at or below 310) J20 ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR	1000-0300
	(at or above 330) J113 CRG J51 SAV J207 FLO	
	J55 J51 FAK DYLIN-STAR	1000-0300
	(GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK	
	PHLBO (RNAV)-STAR	1000-0300
	or (GPS or DME/DME-IRU equipped-at or below	
	310) J20 ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR or	1000-0300
	(GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR	1000-0300
Newburgh (SWF)	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR	
New Haven (HVN)	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED	
New Orleans (MSY)	MAD193 KEYED	1000-0300
Ocala (OCF)	J85 LLAKE LAL	1000-0300 1030-0300
ocaia (oor)	or	
Orlando (MCO)	J20 LLNCH GOOFY-STAR	1030-0300 1030-0300
Overwater Routes to the Northeast	(Water-Turbojets) ZAPPA WOLFO AR18 DIW	1030-0300
Overwater Routes to the Northwest	LBV J616or	1030-0300
Philadelphia (PHL)	LBV J616 SRQ Q100 REDFN Q105 HRV J58 J20 ORL J53 CRG J51 SAV J55 CHS J121 SWL	1030-0300
	SWL034 RADDS CEDAR LAKE-STAR or	1000-0300
	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL RADDS CEDAR LAKE-STAR	1000-0300
Pittsburgh (PIT)	(at or below 290) J20 ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR	1000-0300
	or (at or above 330) J113 CRG J51 CAE PSK EKN	
Poughkeepsie (POU)	IHD NESTO-STAR (Water-Turbojets) ZAPPA PERMT AR16 ILM	1000-0300
Providence (PVD)	KEMPR SBY J79 JFK DPK HUDSON-STAR (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDN	
Raleigh-Durham (RDU)	(RNAV)-STAR(at or below 290) J20 ORL J53 CRG J51 SAV J55	
	CHS J174 ILM BRADE-STAR	1000-0300

Terminals	Route	Effective Times (UTC)
	or	
	(at or above 330) J113 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR	1000-0300
	(Water-Turbojets) ZAPPA PERMT AR16 ILM	
St Louis (STL)	BRADE-STAR THNDR CTY J151 VISQA QBALL-STARor	1000-0300
	(/E, /G, /R, /J, /L, /Q) THNDR KPASA Q110	
	FEONA VUZ J151 VISQA QBALL-STAR	
Sarasota/Bradenton (SRQ)	LBV J43 ROGAN	1030-0300
	or	4000 0000
Springfield/Chicopee (CEF)	ROGAN(Water-Turbojets) ZAPPA PERMT AR16 ILM	1030-0300
Springheid/Chicopee (CEF)	KEMPR SBY J79 VILLS DPK DEER PARK-STAR	
Tallahassee (TLH)	J85 LLAKE LAL SZW	1030-0300
rananassee (TEII)	or	1030-0300
	LAL	1030-0300
Tampa (TPA)	J85 THNDR LBV BRDGE-STAR	1030-0300
	or	
	BRDGE BRDGE-STARor	1030-0300
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK	
	(RNAV)-STAR	1030-0300
	Or	
	(GPS or DME/DME-IRU equipped) J85 THNDR	4000 0000
Toronto (CYYZ)	LBV DEAKK (RNAV)-STAR(Water-Turbojets) ZAPPA PERMT AR16 ILM J109	1030-0300
	BUF YOUTH-STAR	
Vero Beach (VRB)	J20 ARKES VRB	1030-0300
Washington Dulles (IAD)	(at or below 310) J20 ORL J53 CRG J51 SAV	
	J207 RDU FAK COATT-STAR	1000-0300
	or	
	(at or below 310–GPS or DME/DME–IRU	
	equipped) J20 ORL J53 CRG J51 SAV J207	1000 0000
	RDU FAK BARIN-STAR(at or above 330-GPS or DME/DME-IRU	1000-0300
	equipped) J113 CRG J51 SAV J207 RDU FAK	
	BARIN-STAR	1000-0300
	or	1000-0300
	(at or above 330) J113 CRG J51 SAV J207 RDU	
	FAK COATT-STAR	1000-0300
	or	
	(Water) ZAPPA PERMT AR16 ILM J109 FAK	
	COATT-STAR	1000-0300
	or	
	(Water-GPS or DME/DME-IRU equipped) ZAPPA	
Machineton Notl (DOA)	PERMT AR16 ILM J109 FAK BARIN-STAR	1000-0300
Washington Natl (DCA)	(at or below 310) J20 ORL J53 CRG J51 SAV J55	1000 0200
	CHS J165 RIC IRONS-STAR	1000-0300
	(at or above 330) J113 CRG J51 SAV J55 CHS	
	J165 RIC IRONS-STAR	1000-0300
	or	
	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40	
	RIC IRONS-STAR	1000-0300
	or	
	(GPS or DME/DME–IRU equipped–at or below	
	310) J20 ORL J53 CRG J51 SAV J55 CHS J165	4000 00
	RIC OJAAY (RNAV)-STAR	1000-0300
	Or (GPS or DME/DME_IRII equipped_at or above	
	(GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC	
	OJAAY (RNAV)-STAR	1000-0300
	or	

Terminals	Route	Times (UTC)
	(Water-Turbojets-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR	1000-0300
Westfield (BAF)	(Water-Turbojets) ZAPPA PERMIT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR	1000-0300
Westhampton Beach (FOK)	(Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 HTO	
White Plains (HPN)	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR or	
	(Water-Turboprops) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR	
Wilmington (ILM)	(Water-Turbojets-Overwater Routes to the NE) ZAPPA PERMT AR16	
Windsor Locks (BDL)	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR	
Worcester (ORH)	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD	
FORT MYERS METRO AREA (RSW, FMY, APF, MKY, PGD)		
Daytona Beach (DAB)	ORL	1030-0300
Gainesville (GNV)	LAL(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	1030-0300
nouston (nou)	COLUMBIA (RNAV)-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR	
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR	
Houston (IAH)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR or	1000-0300
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR	1000-0300
	(Non-advanced NAV only) LAL J73 SZW J2 CEW	
	J50 AEX DAS-STAR	1000-0300
Jacksonville (CRG)	ORL J53(all others) CYY CYY-STAR	1030-0300 1030-0300
WIGHT (WIA)	or (/E, /G, /R, /J, /L, /Q) CYY DEEDS	1030-0300
	(RNAV)-STAR	1030-0300
Ocala (OCF) Orlando (MCO)	LAL LAL MINEE-STAR or	1030-0300 1030-0300
	DOWNN MINEE-STARor	1030-0300
	LALor	1030-0300
	(Turbojets) ORLor	1030-0300
Tallahaaaaa (TLH)	(Turbojets) DOWNN MINEE-STAR	1030-0300
Tallahassee (TLH) Tampa (TPA)	LAL RSW BRDGE-STARor	1030-0300 1030-0300
	V7 ROGAN J43 PIEor	1030-0300
	(GPS or DME/DME-IRU equipped) DEAKK (RNAV)-STAR	1030-0300
Westbound destinations	SRQ Q100 LEV J86	
	BAGGS Q102 LEV J86or	

Terminals	Route	Effective Times (UTC)
	SRQ 100 REDFN Q105 HRV J58	
From PAGE FLD (FMY) only: Cincinnati (CVG)	(RNAV only) LAL CTY J91 VXV JAKIE (RNAV)-STAR	
Cleveland Metro (CLE)	(all others) LAL CTY J91 ATL VXV HARDU-STAR LAL CTY J91 HNN TVT KEATN-STAR LAL CTY J91 HNN BREMN-STAR LAL CTY J91 VXV J43 FLM DQN MIZAR-STAR	
Detroit Satellites: Ann Arbor (ARB), Willow Run (YIP) Pontiac (PTK), Windsor (CYQG), Young	LAL CTY J91 VXV J43 FLM DQN CRUXX-STAR	
(DET) La Guardia (LGA)	LAL J73 J119 TAY J85 DJB LLEEO-STAR	1100 0300
Miami (MIA)	(Turbojets-GPS or DME/DME-IRU equipped) CYY	1100-0300
Newark (EWR)	SSCOT (RNAV)-STAR ORL J53 CRG J51 FAK DYLIN-STAR or	1100-0400
Washington Natl (DCA)	(GPS or DME/DME-IRU equipped) ORL J53 CRG J51 FAK PHLBO(RNAV)-STAR ORL J53 CRG J51 SAV J55 CHS J165 RIC	1100-0400
	IRONS-STAR	1000-0300
From SW FLORIDA INTL (RSW) only: Atlanta (ATL)	RSW LAL J73 SZW LGC-STAR	1000-0300
Chianga Midway (MDW)	(RNAV only) RSW LAL J73 SZW HONIE (RNAV)-STAR	1000-0300
Chicago Midway (MDW)	(/E/G/R/J/L/Q only) RSW LAL CTY J91 ATL J89 IIU OKK FISSK (RNAV)–STARor	1000-0300
Chicago O'Hare (ORD)	(non-advanced RNAV only) RSW LAL CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	1000-0300
	(RNAV)-STARor or (non-advanced RNAV only) LAL CTY J91 ATL	1000-0300
Cleveland (CLE)	CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 KNOX-STAR RSW LAL J73 J119 TAY J85 IRQ J85 HVQ J85 TVT040 KEATN KEATN-STAR	1000-0300
Columbus (CMH)	RSW LAL J73 J119 TAY J85 HVQ HNN BREMN-STAR	1000-0300
Dallas/Ft. Worth (DFW)	RSW SRQ Q100 REDFN Q105 HRV J58 AEX CQY or	1000 0000
Denver (DEN)	RSW LAL J73 SZW J2 CEW J50 AEX CQY	1000-0300
Detroit/Wayne (DTW)	RSW LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR JOCKS ORL J53 SPA HNN WEEDA-STAR	
Detroit Satellites: Ann Arbor (ARB), Willow Run (YIP)	LAL CTY J91 VXV J43 FLM DQN CRUXX-STAR	
Pontiac (PTK), Windsor (CYQG), Young (DET)	LAL J73 J119 TAY J85 DJB LLEEO-STAR RSW LAL CTY J91 ATL J89 IIU DECEE-STAR	
Indianapolis (IND) Louisville (SDF)	RSW LAL CTY J91 ATL J89 IIO DECEE-STAR	
Miami (MIA)	(Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR	
Minneapolis (MSP)	RSW LAL CTY J91 ATL J89 BAE EAU-STAR	1000-0300
Nashville (BNA) Pittsburgh (PIT)	RSW LAL CTY J91 ATL GQO VOLLS-STAR	1000-0300
Raleigh–Durham (RDU)	RSW ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR	1000-0000

Terminals	Route	Effective Times (UTC)
St Louis (STL)	LAL J73 SZW J41 VUZ STL RSW ORL J53 CRG J51 SAV J207 RDU FAK	1100-0300
nacington saide (i.s.)	COATT-STAR	1000-0300
Wahington Natl (DCA)	CRG J51 SAV J207 RDU FAK BARIN-STAR RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC	1000-0300
	IRONS-STARor (GPS or DME/DME-IRU equipped) RSW ORL J53	1000-0300
00	CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR	1000-0300
GREENSBORO (GSO)		
Chicago Midway (MDW)	PSK HNN FWA GOSHEN-STAR	1100-0300
Chicago O'Hare (ORD)	PSK HVQ APE J178 FWA GOSHEN-STAR (/E/G/R/J/L/Q only) BOTTM FLM HEVAN MZZ	1100-0300
	ROYKO (RNAV)-STAR or	1100-0300
	(non-advanced RNAV only) BOTTM FLM HEVAN	
•	MZZ MZZ344/33 OXI KNOX-STAR	1100-0300
Cincinnati (LUK)	PSK HVQ FLM	0700–2300
Detroit/Wayne (DTW)	BOTTM BKW GEMNI-STAR	
La Guardia (LGA)	J14 PXT KORRY-STAR	0700-2300
Louisville (SDF) Newark (EWR)	VXV J99 GHATS EWO IIU	0700-2300
	(GPS or DME/DME-IRU equipped) J14 J51 FAK PHLBO (RNAV)-STAR	
GREER (GSP) Detroit/Wayne (DTW)	SPA HMV HNN WEEDA-STAR	
HUNTSVILLE (HSV) Chicago O'Hare (ORD) Detroit/Wayne (DTW)	MEM FTZ BDF BDF-STAR(RNAV only) BNA IMPEL VHP FWA MIZAR-STAR	0000-2359
	or BNA CCT VHP FWA MIZAR-STAR	
IAOKOONIKI E METDO ADEA (IAV)		
JACKSONVILLE METRO AREA (JAX) Baltimore (BWI)	J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR	1100-0400
	(GPS or DME/DME-IRU equipped) J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR	1100-0400
Charlotte (CLT)	J53 IRQ UNARM-STARor	
	J51 SAV J207 FLO CTF-STAR or	
	(Turbojets-GPS or DME/DME-IRU equipped) J51 SAV HUSTN (RNAV)-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped) J53	
Ohio de Oilless (ODD)	IRQ ADENA (RNAV)—STAR	
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) SAV CAE HMV FLM HEVAN MZZ ROYKO (RNAV)-STAR or	0000-2359
	(non-advanced RNAV only) SAV CAE HMV FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR	0000-2359
Detroit/Wayne (DTW)	NOWAY J53 SPA HNN WEEDA-STAR(GPS or DME/DME-IRU equipped) TAY J2 SJI	0000 2000
	COLUMBIA (RNAV)-STARor	
	(Non-advanced NAV only) TAY J2 CEW J50 AEX DAS-STAR	
Houston (IAH)	(GPS or DME/DME-IRU equipped) TAY J2 SJI WOLDE (RNAV)-STAR or	

Terminals	Route	Effective Times
reminals	(Non-advanced NAV only) TAY J2 CEW J50 AEX	(UTC)
La Guardia (LGA)	DAS-STAR J51 SAV J207 RDU J55 HPW J191 PXT	
Newark (EWR)	KORRY-STARCRG J51 FAK DYLIN-STAR	1100-0400
	or (GPS or DME/DME–IRU equipped) CRG J51 FAK	
Philadelphia (PHL)	PHLBO (RNAV)-STAR J51 SAV J55 CHS J121 SWL SWL034 RADDS	
Tampa (TPA)	VCN-STAR TAY LZARD-STAR	1100-0400
	or (GPS or DME/DME-IRU equipped) TAY DADES	
Washington Dulles (IAD)	(RNAV)-STARSAV CHS J165 J109 FAK COATT-STARor	1100-0400
	(GPS or DME/DME-IRU equipped) SAV J207 RDU	
	FAK BARIN-STAR	1100-0400
Washington Natl (DCA)	J51 SAV J55 CHS J165 RIC IRONS-STAR or	1100-0400
	(GPS or DME/DME-IRU euipped) J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR	1100-0400
KEY WEST METRO AREA (NQX)		
Daytona Beach (DAB)	J41 RSW ORL	1030-0300
Fort Lauderdale (FLL)	(all others) EYW DVALL-STARor	1030-0300
	(/E, /G, /R, /J, /L, /Q) EYW CURSO	
Fort Marrie (DOM)	(RNAV)-STAR	1030-0300
Fort Myers (RSW)	J41 PHK	1030-0300 1030-0300
Miami (MIA)	(all others) EYW DVALL-STAR	1030-0300
	(/E, G, /R, /J, /L, /Q) EYW CURSO (RNAV)-STAR.	1030-0300
Orlando (MCO)	J41 RSW MINEE-STAR	1030-0300
Palm Beach (PBI)	PHK	1030-0300
Sarasota/Bradenton (SRQ)	J41 RSW V7 ROGAN	1030-0300
Tallahassee (TLH)	J41 RSW LALor	1030-0300
Tamas (TDA)	(at or above FL360) J41 RSW TEPEE SZW	1030-0300
Tampa (TPA)	J41 RSW ROGAN BRDGE BRDGE-STAR	1030-0300
	(GPS or DME/DME-IRU equipped) J41 RSW ROGAN DEAKK DEAKK (RNAV)-STAR	1000-0300
Vero Beach (VRB)	PHK	1030-0300
KNOXVILLE (TYS)		
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) VXV HEVAN MZZ ROYKO	
	(RNAV)-STARor	0000–2359
	(non-advanced RNAV only) VXV HEVAN MZZ	
Cleveland Metro (CLE)	MZZ344/33 OXI KNOX-STAR	0000–2359
Detroit/Wayne (DTW)	VXV J91 BULEY J91 HNN TVT KEATN-STAR VXV J91 HNN WEEDA-STAR	
La Guardia (LGA)	BKW J42 GVE KORRY-STAR	
LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16)		
Fort Lauderdale (FLL)	(Jets only-all others) RSW FORTL-STAR	
Key West Intl (EYW)	RSW J41	1030-0300
Miami (MIA)	(Turbojets-GPS or DME/DME-IRU equipped) CYY	
West Palm Beach (PBI)	SSCOT (RNAV)-STAR(Turbojets-GPS or DME/DME-IRU equipped)	
WOSE FAIIII DEAGH (FDI)	WLACE (RANV)-STAR	1030-0300
LEXINGTON (LEX)		
Atlanta (ATL)	(RNAV only) AZQ SOT FLCON (RNAV)-STAR	
Cleveland (CLE)	CVG ABERZ-STAR	

ffective
Times
(UTC)

Terminals	Route	Times (UTC)
LOUISVILLE METRO AREA (LOU, SDF) From BOWMAN FIELD (LOU) only		
Dallas/Ft Worth (DFW)	PXV J131 LIT BYP	
Phoenix (PHX)	FAM J78 ABQ J18or	
	FAM J78 IRW J74 SJN J18	
From LOUISVILLE INTL (SDF) only		
Atlanta (ATL)	MYS BWG ROME-STARor	
Claveland Matra (CLE)	(RNAV only) MYS BWG RMG ERLIN (RNAV)-STAR	
Cleveland Metro (CLE)	CVG ABERZ-STAR(GPS or DME/DME-IRU equipped) SWB ROKIT (RNAV)-STAR	
	or	
Houston (IAH)	(Non-advanced NAV only) SWB DAS-STAR (Turbojets-GPS or DME/DME-IRU equipped) SWB TXMEX (RNAV)-STAR	
	or	
MEMPHIS (MEM)	(Non-advanced NAV only) SWB DAS-STAR	
Baltimore (BWI)	J42 BKW J147 CSN OTT-STAR	
	or (GPS or DME/DME-IRU equipped) J42 BKW J147	
Boca Raton (BCT)	CSN RAVNN (RNAV)-STAR(GPS or DME/DME-IRU equipped) MGM SZW	
Boston (BOS)	PRRIE (RNAV)-STAR	
	FKN J79 JFK ORW-STARor	
	J118 SPA SPA100 J209 RDU J207 FKN J79 JFK	
Cincinnati (CVG)	ORW-STAR(RNAV only) J29 PXV SARGO (RNAV)-STAR	
Cleveland (CLE)	(all others) J29 PXV MOSEY-STARPXV ABERZ-STAR	
Denver (DEN)	RZC PER GCK J154 RYLIE DANDD-STAR	
Detroit/Wayne (DTW) Houston (HOU)	J29 PXV VHP FWA MIZAR-STAR(DME/DME-IRU or GPS-equipped) LIT J180 SWB	
Trouston (1100)	ROKIT (RNAV)–STAR	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR	
Houston (IAH)	(Turbojets-DME/DME-IRU or GPS-equipped) LIT J180 SWB TXMEX (RNAV)-STAR	
	or	
V 1.050	(Non-advanced NAV only) LIT J180 SWB DAS-STAR	
Kennedy (JFK)	J118 SPA SPA100 J209 ORF J121 SIE CAMRN-STAR	
La Guardia (LGA)	J42 GVE KORRY-STAR	
Louisville (SDF)	BNA BNAO37 BARRY EWOor	
Minneanelia (MSD)	Q29 SIDAE CHERI CHERI-STAR	1300-0300
Minneapolis (MSP) Newark (EWR)	J42 GVE DYLIN-STAR	1300-0300
	(GPS or DME/DME-IRU equipped) J42 GVE PHLBO (RNAV)-STAR	
Orlando (ORL/MCO)	MGM SZW J43 PIE LAL	1100-0400
	GPS or DME/DME-IRU equipped) MGM SZW J43	
	PIE COSTR (RNAV)-STAR	1100-0400
Philadelphia (PHL)	J41 MGM S2W J43 PIE LAL	
Pittsburgh (PIT)	J29 PXV IIU HNN WISKE-STAR	

Terminals	Route	Effective Times (UTC)
Sarasota/Bradenton (SRQ)	MGM SZW CLAMP-STARMGM SZW DARBS-STAR	1100-0400
Tampa (TPA)	or (GPS or DME/DME-IRU equipped) MEM SZW	1100-0400
	FOXX (RNAV)-STAR	1100-0400
Washington Dulles (IAD)	J42 BKW ROYIL-STAR	1100-1830
	PXV IIU J8 HVQ SHNON (RNAV)-STAR or	1830–2230
	J42 BKW SHNON (RNAV)-STAR	2230-0300
Washington Natl (DCA)	PXV IIU J8 HVQ ROYIL-STAR	1830–2230
West Palm Beach (PBI)	ELDEE (RNAV)-STAR MGM SZW WLACE (RNAV)-STAR J42 BNA J46 VXV SPA SPA100 J209 RDU J207	
MIAMI METRO AREA	FKN J79 JFK DPK DPK-STAR	
(MIA, HWO, OPF, TMB, HST, X51)		
Albany (ALB)	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE	
Atlanta (ATL)	V487 CANAN V130 J81 CHESN SINCA-STAR	1000-0300
Baltimore (BWI)	or (RNAV only) J81 CHESN CANUK (RNAV)-STAR J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC	1000-0300
	OTT-STAR	1000-0300
	(Water-Turbojets) VALLY PERMT AR16 ILM J40 RIC OTT-STAR	1000-0300
	or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN	
	(RNAV)-STARor	1000-0300
	(GPS or DME/DME-IRU equipped) VALLEY PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR	1000-0300
Bedford (BED)	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR	1000-0300
	or (Water–Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	
Beverly (BVY)	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM-STARor	
	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	
Boston (BOS)	J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR or	1000-0300
	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK ORW-STAR	
Chicago Midway (MDW)	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STARor	1000-0300
	(non-advanced RNAV only) CTY J91 ATL J89 IIU	4000 0000
Chicago O'Hare (ORD)	OKK V285 CLEFT OXI CGT (/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	1000-0300
	(RNAV)-STAR	1000-0300

erminals	Route	Effective Times (UTC)	
	Or		
	(non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ		
	MZZ344/33 OXI KNOX-STAR	1000-0300	
Cincinnati (CVG)	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR		
	Of	1000 0300	
Columbus (CMH)	(all others) CTY J91 VXV HARDU-STAR J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR	1000-0300	
Cross City (CTY)	LAL CTY	1030-0300	
Dallas/Fort Worth (DFW)	J616 SRQ Q100 REDFN Q105 HRV J58 AEX CQY .	1000-0300	
	or LAL J73 SZW J2 CEW J50 AEX CQY	1000-0300	
Danbury (DXR)	(Water-Turbojets) VALLY WOLFO AR18 DIW	1000 0000	
	WETRO CEBEE SWL J121 SIE V139 RICED		
	RICED-STAR		
Daytona Beach (DAB)	J53 HEDLY MLB V3 or MLB V3	1030-0300	
Denver (DEN)	LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE		
Detroit/Wayne (DTW)	DANDD-STAR		
Detroit Satellites:			
Ann Arbor (ARB),	J81 IRQ J99 VXV J43 FLM DQN CRUXX-STAR		
Detroit (DET),			
Pontiac (PTK),			
Windsor (CYQG)			
Willow Run (YIP) Ann Arbor (ARB)	J81 IRQ J85 DJB LLEEO-STAR		
Fort Pierce (FPR)	J53 HEDLY or FPR	1030-0300	
Farmingdale (FRG)	(Water-Turbojets) VALLY WOLFO AR18 DIW	1000 0000	
,	WETRO CEBEE SWL J121 SIE CAMRN-STAR		
Gainesville (GNV)	Direct	1030-0300	
Hampton (HTO)	(Water-Turbojets) VALLY WOLFO AR18 DIW		
lostford (HED)	WETRO CEBEE SWL J121		
Hartford (HFD)	(Water–Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1		
Houston Intenti (IAH)	(DME/DME-IRU or GPS-equipped) LAL J73 SZW		
, ,	J2 SJI WOLDE (RNAV)-STAR	1000-0300	
	or		
	(Non-advanced NAV only) LAL J73 SZW J2 CEW		
	J50 AEX DAS-STAR	1000-0300	
	J616 SRQ Q100 LEV WOLDE (RNAV)-STAR	1000-0300	
Houston Hobby (HOU)	(DME/DME-IRU or GPS-equipped) LAL J73 SZW		
	J2 SJI COLUMBIA (RNAV)-STAR	1000-0300	
	or		
	(GPS or DME/DME-IRU equipped) J616 SRQ		
	Q100 LEV COLUMBIA (RNAV)-STAR	1000-0300	
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW		
	J50 AEX DAS-STAR	1000-0300	
ndianapolis (IND)	LAL CTY J91 ATL J89 IIU DECEE-STAR	1000-0300	1000-0300
slip (ISP)	(Water-Turbojets) VALLY WOLFO AR18 DIW		
Landa and May (IAV)	WETRO CEBEE SWL J121 SARDI CCC	4000 0000	
acksonville (JAX)	J53(Water–Turbojets) VALLY WOLFO AR18 DIW	1030-0300	
Kennedy (JFK)	WETRO CEBEE SWL J121 SIE CAMRN-STAR	1000-0300	
	or	2000 0000	
	J53 CRG J51 SAV J55 CHS J121 SIE		
	CAMRN-STAR	1000-0300	
a Guardia (LGA)	(Water) VALLY PERMT AR16 ILM J40 TYI HPW	4000 0000	
	J191 PXT KORRY-STARor	1000-0300	
	or J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT		
	KORRY-STAR	1000-0300	
Lawrence (LWM)	(Water-Turbojets) VALLY PERMT AR16 ILM		
	KEMPR SBY J79 JFK DPK MAD HFD		
	GRAYM-STAR		
	or		

Towningle	Bouto	Effective Times
Terminals	Route (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW	(UTC)
	GRAYM-STAR	4000 0000
Louisville (SDF) Manchester (MHT)	CTY J91 ATL HCH DARBY-STAR(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN	1000-0300
Melbourne (MLB)	J53 HEDLY or DRCT	1030-0300
Minneapolis (MSP)	CTY J91 ATL J89 BAE EAU-STAR	1000-0300
Montreal (CYUL)	VALLY PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR	
Nantucket (ACK)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46	
Nashville (BNA) Newark (EWR)	CTY J91 ATL GQO VOLLS-STAR(Water) VALLY PERMT AR16 ILM J109 FAK DYLIN-STAR	1000-0300
	J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR	1000-0300
	or (GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J207 FLO J55 J51 FAK PHLBO	4000 0000
	(RNAV)-STARor	1000-0300
	(GPS or DME/DME-IRU equipped) VALLY PERMT	
	AR16 ILM J109 FAK PHLBO (RNAV)-STAR	1000-0300
Newburgh (SWF)	(Water-Turbojets) VALLY PERMT AR16 ILM	
New Herry (IDA)	KEMPR SBY J79 JFK DPK HUDSON–STAR	
New Haven (HVN)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED	
New London/Groton (GON)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO	
New Orleans (MSY)	LAL J73 SZW J2	1000-0300
	(Water) J616 SRQ Q100 REDFN Q105 HRV	1000-0300
Ocala (OCF)	J73 LAL or DRCT	1030-0300
Orlando (MCO)	J53 PHK GOOFY-STARor	1030-0300
Overwater Routes to the Northeast	(PHK GOOFY-STAR (Water-Turbojets) VALLY PERMT AR16 ILM or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW	
Overwater Routes to the Northwest	J616 SRQ Q100 LEV J86	1030-0300
Philadelphia (PHL)	J616 SRQ Q100 REDFN Q105 HRV J58 J53 CRG J51 SAV J55 CHS J121 SWL SWL034	1030-0300
	RADDS VCN-STARor	1000-0300
	(Water-Turbojets) VALLY WOLFO AR18 DIW	
Division of (DIT)	WETRO CEBEE SWL RADDS VCN-STAR	1000-0300
Pittsburgh (PIT)	J53 CRG J51 CAE PSK EKN IHD NESTO-STAR	1000-0300
Poughkeepsie (POU)	(Water–Turbojets) VALLY PERMT AR16 ILM	
Providence (PVD)	KEMPR SBY J79 JFK DPK HUDSON-STAR (Water-Turbojets) VALLY WOLFO AR18 DIW	
Providence (PVD)	WETRO CEBEE SWL J174 HTO JORDAN (RNAV)-STAR	
Raleigh-Durham (RDU)	(Water-Turbojets) VALLY PERMT AR16 ILM	
	BRADE-STAR	1000-0300
	J53 CRG J51 SAV J55 CHS J174 ILM	
	BRADE-STAR	1000-0300
St Louis (STL)	Or	1000-0300
	(/E, /G, /R, /J, /L, /Q) WINCO KPASA Q110	
Sarasota/Bradenton (SRQ)	FEONA VUZ J151 VISQA QBALL-STAR J616	1030-0300
Garasota/ Diadentoli (SNQ)	7010	1030-0300

Terminals Tallahassee (TLH)	Route J73	Times (UTC)
	or	1020 0200
Tampa (TPA)	J43 BRDGE BRDGE–STAR	1030-0300 1030-0300
Toronto (CYYZ)	(GPS or DME/DME-IRU equipped) J43 DEAKK DEAKK (RNAV)-STAR(Water-Turbojets) VALLY PERMT AR16 ILM J109	1030-0300
	BUF YOUTH-STAR	
Vero Beach (VRB)	Or	1030-0300
Washington Dulles (IAD)	J53 HEDLY J53 CRG J51 SAV J207 RDU FAK COATT-STAR or	1000-0300
	(GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J207 RDU FAK BARIN-STAR	1000-0300
	(Water) VALLEY PERMT AR16 ILM J109 FAK COATT-STAR	1000-0300
	Of (Mater CDS or DME /DME IDII oguinned) VALLY	
Washington Natl (DCA)	(Water-GPS or DME/DME-IRU equipped) VALLY PERMT AR16 ILM J109 FAK BARIN-STAR (Turbojets) J53 CRG J51 SAV J55 CHS J165 RIC	1000-0300
- , ,	IRONS-STARor	1000-0300
	(Water-Turbojets) VALLY PERMT AR16 ILM J40 RIC IRONS-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR	1000-0300
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) VALLY PERMT ILM J40 RIC OJAAY (RNAV)-STAR	1000-0300
Westhampton (FOK)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO	
White Plains (HPN)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR	
Wilmington (ILM)	(Water-Turbojets) VALLY PERMT AR16 (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR	
Worcester (ORH)	(Water–Turbojets) VALLY PERMT AR16 ILM KEMPR SYB J79 JFK DPK MAD HFD	
MOBILE (MOB)		
Houston (HOU)	(DME/DME-IRU or GPS-equipped) SJI COLUMBIA (RNAV)-STAR	
	or (Non-advanced NAV only) SJI J50 AEX DAS-STAR.	
Houston (IAH)	(DME/DME-IRU or GPS-equipped) SJI WOLDE (RNAV)-STAR or	
MVDTI E DEAGU /MVP	(Non-advanced NAV only) SJI J50 AEX DAS-STAR.	
MYRTLE BEACH (MYR) Detroit/ Wayne (DTW)	BKW GEMNI-STAR	
NASHVILLE		
Baltimore (BWI)	J42 BKW J147 CSN OTT-STARor (GPS or DME/DME-IRU equipped) J42 BKW J147	
Boca Raton (BCT)	CSN OTT-STAR	
שטעל הפנטוו (שטו)	(GPS or DME/DME-IRU equipped) MGM SZW PRRIE (RNAV)-STAR	

▼		Effective Times
Terminals Boston (BOS)	Route J46 VXV SPA SPA100 J209 RDU J207 FKN J79	(UTC)
203(011 (200)	JFK ORW-STAR	
Chicago/Midway (MDW)	(/E/G/R/J/L/Q only) IIU OKK FISSK (RNAV)-STAR	0000-2359
	or (non-advanced RNAV only) IIU OKK V285 CLEFT OXI CGT	0000–2359
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) IIU HEVAN MZZ ROYKO (RNAV)-STAR	0000-2359
	or (non-advanced RNAV only) IIU HEVAN MZZ MZZ344/33 OXI KNOX-STAR	0000–2359
Cincinnati (CVG)	IIU MZZ OXI KNOX–STAR BWG V49 ABB V47 CVG	
Cleveland (CLE)	IIU ABERZ-STAR	
Columbus (CMH) Denver (DEN)	LVT V493 YRK YRK035 APE168 NIKLS FAM J112 BUM J110 GCK J154 RYLIE DANDD-STAR	
Detroit/Wayne (DTW)	(RNAV only) IMPEL VHP FWA MIZAR-STAR or	
	CCT VHP FWA MIZAR-STAR	
Fort Lauderdale (FLL)	(all others) J39 MGM SZW J41 PIE FORTL–STAR (Turbojets–GPS or DME/DME–IRU equipped) J39	
Houston (HOU)	MGM J41 SZW SSCOT (RNAV)-STAR (GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR	1100-0300
	or (Non-advanced NAV only) LIT J180 SWB	
Houston (IAH)	DAS-STAR (Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR	
Indianapolis (IND) Kennedy (JFK)	J39 IIU DECEE-STAR J46 VXV SPA SPA100 J209 ORF J121 SIE	
La Guardia (LGA)	CAMRN-STARJ42 GVE KORRY-STAR	
Miami (MIA)	(all others) J39 MGM SZW J41 PIE CYY–STAR	
	(Turbojets-GPS or DME/DME-IRU equipped) J39 MGM SZW SSCOT (RNAV)-STAR	
Minneapolis (MSP) Newark (EWR)	IIU J89 BAE EAU-STARSPA J14 J51 FAK DYLIN-STAR	1100-0400
	(GPS or DME/DME-IRU equipped) SPA J14 J51	
0.1	FAK PHLBO (RNAV)-STAR	1100-0400
Orlando (MCO, ORL)	J39 MGM SZW J43 PIE LALor	1100-0400
	(GPS or DME/DME-IRU equipped) J39 MGM SZW J43 PIE COSTR (RNAV)-STAR	1100-0400
Philadelphia (PHL)	J42 OTT DPNT-STAR	
Pittsburgh (PIT) St. Louis (STL)	IIU HNN WISKE-STAR QBALL-STAR	
Toronto (CYYZ)	J39 ROD J43 CRL J586 YXU V98 YWT V216	
Washington Dulles (IAD)	J42 BKW ROYIL-STAR	
Washington Natl (DCA)	J42 BKW SHNON (RNAV)-STAR J42 BKW WZRRD-STAR	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW	
West Palm Beach (PBI)	ELDEE (RNAV)-STAR(Turbojets-GPS or DME/DME-IRU equipped)	
, <u>-,</u>	MGM SZW WLACE (RNAV)-STAR	

Terminals	Route	Effective Times (UTC)
Windsor Locks (BDL)	J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK DPK DPK-STAR	
ORLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB)		
Baltimore (BWI)	(Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC RAVNN (RNAV)-STAR	1100-0400
	or (GPS or DME/DME–IRU equipped) J53 CRG J51	1100-0400
Detroit/Wayne (DTW)	SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR	1100-0400
Fort Pierce (FPR) Houston (HOU)	VRB(GPS or DME/DME-IRU equipped) PIE REMIS	1030-0300
	Q100 LEV COLUMBIA (RNAV)-STAR or	1000-0300
	(GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR or	1000-0300
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	1000-0300
Houston (IAH)	(GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV WOLDE (RNAV)-STAR	1000-0300
	or (GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	1000-0300
Key West (EYW) Overwater Routes to the Northeast	RSW J41(Water-Turbojets) MLB LENDS AR16 ILM	1030-0300
Wilmington (ILM)	(Water-Turbojets) MLB ETECK AR18 DIW (Water-Turbojets) MLB LENDS AR16	
From ORLANDO EXECUTIVE (ORL) only Albany (ALB)	(Water–Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487	
Atlanta (ATL)	J53 CRG DBN SINCA-STAR	
Baltimore (BWI)	or (RNAV only) J53 CRG DBN CANUK RNAV-STAR (Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR	1100-0400
	or J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR	1100-0400
Bedford (BED)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR or	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	
Beverly (BVY)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR or	
Bridgeport (BDR)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193	
Charlotte (CLT)	KEYED	
Cincinnati (CVG)	(Turbojets-GPS or DME/DME-IRU equipped) J53 CRG J51 SAV HUSTN (RNAV)-STAR (RNAV only) J53 CRG J45 ATL J43 VXV JAKIE (RNAV)-STAR	

		Effective
Terminals	Route	Times (UTC)
Terminais	or	(010)
	(all others) J53 CRG J45 ATL J43 VXV	
Cleveland (CLE)	HARDU-STAR J53 SPA J85 TVTO40 KEATN KEATN-STAR	
Columbus (CMH)	J53 SPA J85 HVQ HNN BREMN-STAR	
Dallas/Ft. Worth (DFW)	PIE REMIS Q100 REDFN Q105 HRV J58 AEX CQY.	
Danbury (DXR)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE V139 RICED RICED-STAR	
Denver (DEN)	CTY SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR	
Detroit/Wayne (DTW)	VXV J91 HNN WEEDA-STAR	
Detroit Satellites: Detroit (DET), Windsor (CYQG), Pontiac		
(PTK), Willow Run (YIP), Ann Arbor	J53 CRG J45 ATL J91 VXV J43 FLM DQN	
(ARB)	CRUXX-STAR	1100-0400
	J53 IRQ J85 DJB LLEEO-STAR	
East Hampton (HTO)	(Water–Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 HTO	
Farmingdale (FRG)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR	
Hartford (HFD)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK DPK MAD V1	
Indianapolis (IND)	J53 CRG J45 ATL J89 IIU DECEE-STAR	
Islip (ISP)	(Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SARDI CCC	
Kennedy (JFK)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE CAMRN-STAR	0700-0000
	J53 CRG J51 SAV J55 CHS J121 SIE	
	CAMRN-STAR	
La Guardia (LGA)	(Water-Turbojets) MLB LENDS AR16 ILM J40 TYI	
	HPW J191 PXT KORRY-STAR	1100-0300
	or J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT	
	KORRY-STAR	1100-0300
Lawrence (LWM)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	1100-0500
	SBY J79 JFK DPK MAD HFD GRAYM-STAR	
	or	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J174 HTO ORW GRAYM-STAR	
Louisville (SDF)	CTY J91 ATL HCH DARBY-STAR	
Manchester (MHT)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
Mississa II. (MOD)	SBY J79 JFK ALB EEN	4400 0400
Minneapolis (MSP)	CTY J91 ATL J89 BAE EAU-STAR	1100-0400
Montreal (CYUL)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR	
Nantucket (ACK)	(Water–Turbojets) MLB ETECK AR18 DIW WETRO	
Hamadilat (Harly	CEBEE SWL J174 HTO V46	
Nashville (BNA)	CTY J91 ATL VOLLS-STAR	1100-0400
Newark (EWR)	(GPS or DME/DME-IRU equipped-WATER) MLB	
	LENDS AR16 ILM J109 FAK PHLBO	
	(RNAV)-STAR	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J207 FLO J55 J51 FAK PHLBO	
New towards (OWE)	(RNAV)-STAR	1100-0400
Newburgh (SWF)	(Water–Turbojets) MLB LENDS AR16 ILM KEMPR	
New Heree (HVN)	SBY J79 JFK DPK HUDSON-STAR	
New Haven (HVN)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE V139 RICED MAD193	
New London (GON)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
New London (GON)	CEBEE SWL J121 HTO	
	OLDEL OWL J121 IIIO	

		Effective Times
Terminals	Route	(UTC)
Philadelphia (PHL)	(Water-Turbojets) J53 CRG J55 CHS J121 SWL	
Pittsburgh (PIT)	SWL034 RADDS VCN-STARCRG J51 CAE PSK EKN IHD NESTO-STAR	1100-0400 1100-0400
Poughkeepsie (POU)	(Water–Turbojets) MLB LENDS AR16 ILM KEMPR	1100 0.00
	SBY J79 JFK DPK HUDSON-STAR	
Providence (PVD)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
Springfield (CEF)	CEBEE SWL J174 HTO JORDN (RNAV)-STAR (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR	
St. Louis (STL)	CTY SZW J41 VUZ J151 VISQA QBALL-STAR	1100-0400
Toronto (CYYZ)	(Water-Turbojets) MLB LENDS AR16 ILM J109 BUF YOUTH-STAR	
Washington Natl (DCA)	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) MLB LENDS AR16 ILM J40 RIC	
	OJAAY (RNAV)-STAR	
	or (Water–Turbojets) MLB LENDS AR16 ILM J40 RIC	
	IRONS-STAR	
Washington Dulles (IAD)	(Water-GPS or DME/DME-IRU equipped) MLB	
	LENDS AR16 ILM J109 FAK BARLIN -STAR	
	or (Water) MLB LENDS AR16 ILM J109 FAK	
	COATT-STAR	
Westfield (BAF)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
Washamatan Basah (FOK)	SBY J79 VILLS DPK DPK-STAR	
Westhampton Beach (FOK)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO	
White Plains (HPN)	(Water–Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE BOUNO-STAR	
	Or	
	(Water-Turboprops) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED	
	RICED-STAR	
Windsor Locks (BDL)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
Warranter (ODII)	SBY J79 VILLS DPK DPK-STAR	
Worcester (ORH)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD	
From ORLANDO INTL (MCO) only		
Atlanta (ATL)	MCOY-DP AMG SINCA-STAR	1100-0400
	or (RNAV only) JAGUAR-DP DBN CANUK	
	(RNAV)-STAR	1100-0400
Baltimore (BWI)	MCOY-DP SAV J55 CHS J79 TYI J40 RIC	
	OTT-STAR	1100-0400
	or (Water–Turbojets) MLB LENDS AR16 ILM J40 RIC	
	OTT-STAR	
Bedford (BED)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK DPK MAD HFD GRAYM-STAR	
	or (Water–Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J174 HTO ORW GRAYM-STAR	
Beverly (BVY)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK DPK MAD HFD GRAYM-STAR	
	or (Water–Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J174 HTO ORW GRAYM-STAR	
Boston (BOS)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK ORW-STAR	1100-0300
	or MCOY-DP SAV J55 CHS J79 JFK ORW-STAR	1100-0300
Bridgeport (BDR)	(Water–Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE V139 RICED MAD193	
Charlotte (CLT)	KEYED MCOY-DP SAV J207 FLO CTF-STAR	
Ondifotto (OLI)	MOOT DE SAVIZOT LO CIT-STAR	

Terminals	Route	Effective Times (UTC)
	or (Turbojets-GPS or DME/DME-IRU equipped) MCOY-DP SAV HUSTN (RNAV)-STAR	
Chicago Midway (MDW)	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR	1100-0400
Chicago O'Hare (ORD)	or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT	1100-0400
	(RNAV)-STAR	1100-0400
Cincinnati (CVG)	(non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR	1100-0400
	or (all others) MCOY-DP AMG J45 ATL J43 VXV HARDU-STAR	1100-0400
Columbus (CMH)	MCOY-DP IRQ J53 SPA J85 HVQ HNN BREMN-STAR	1100-0400
Danbury (DXR)	(WATER-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED	
Detroit/Wayne (DTW) Detroit Satellites: Detriot (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor	RICED-STAR JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR	
(ARB)	JAGUAR-DP IRQ J85 DJB LLEEO-STAR LBV	
Indianapolis (IND)	SBY J79 JFK DPK MAD V1 CTY J91 ATL J89 IIU DECEE-STAR (Water-Turbojets) MLB ETECK AR18 DIW WETRO	1100-0400
Kennedy (JFK)	CEBEE SWL J121 SARDI CCC. (Water) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR	
La Guardia (LGA)	MCOY-DP SAV J55 CHS J121 SIE CAMRN-STAR MCOY-DP SAV J207 RDU J55 HPW J191 PXT ENO-STAR	1100-0300
Lawrence (LWM)	(Water-Turbojets) MLB LENDS AR16 ILM J40 TYI HPW J191 PXT ENO-STAR (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR	
Louisville (SDF) Minneapolis (MSP)	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR CTY J91 ATL HCH DARBY-STAR (all others) CTY VUZ ALO KASPR-STAR or	1100-0400
Montreal (CYUL)	(/E, /G, /R, /J, /L, /Q) WEBSS BRUTS Q110 FEONA VUZ ALO KASPR-STAR(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
Nantucket (ACK)	SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR (Water-Turbojets) MLB ETECK AR18 DIW WETRO	
Nashville (BNA) Newark (EWR)	CEBEE SWL J174 HTO V46	1100-0400
	or MCOY-DP SAV J207 FLO J55 J51 FAK DYLIN-STAR or	

Terminals	Route	Effective Times (UTC)
Terminals	J53 CRG J51 SAV J207 FLO J55 J51 FAK	(010)
	DYLIN-STAR	1100-0400
	(Turbojets-WATER) MLB LENDS AR16 ILM J109 FAK DYLIN-STAR or	1100-0400
	(GPS or DME/DME-IRU equipped) MCCOY SAV	
	J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR or	1100-0400
	(GPS or DME/DME-IRU equipped-WATER) MLB LENDS AR16 ILM J109 FAK PHLBO (RNAV)-STAR	1100-0400
Newburgh (SWF)	(Water-Turbojets)-MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR	
New Haven (HVN)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED	
New London (GON)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO	
Philadelphia (PHL)	(Turbojets) MCOY-DP SAV J55 CHS J121 SWL SWL034 RADDS VCN-STAR	1100-0400
	or	1100 0 100
	(Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL RADDS VCN–STAR	
Pittsburgh (PIT)	MCOY-DP SAV J51 CAE PSK EKN IHD	
5 . ,	NESTO-STAR	1100-0400
Poughkeepsie (POU)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR	
Providence (PVD)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR	
Springfield (CEF)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR	
St. Louis (STL)	CTY J151 VISQA QBALL-STARor	
	(/E, /G, /R, /J, /L, /Q) WEBBS BRUTS Q110	
Toronto (CYYZ)	FEONA VUZ J151 VISQA QBALL-STAR (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK CFB J95 BUF YOUTH-STAR	
Washington Dulles (IAD)	MCOY-DP SAV J55 CHS J165 J109 FAK	4400 0000
Westfield (BAF)	COATT-STAR	1100-0300
West Palm Beach (PBI)	SBY J79 VILLS DPK DPK-STAR (Turbojets-GPS or DME/DME-IRU equipped)	
	DEARY VRB FRWAY (RNAV)—STAR or DEARY VRB TUXXI—STAR	
PALM BEACH METRO AREA	DEART VRB TOXXI-STAR	
(PBI, BCT, LNA, UTX, SUA)		
Albany (ALB)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130	
Atlanta (ATL)	(RNAV only) ORL J81 CHESN CANUK	
	(RNAV)-STAR	1100-0300
Baltimore (BWI)	ORL J81 CHESN SINCA-STAR	1100-0300
	ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR	1100-0300
	(Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR or	

Terminals	Route (GPS or DME/DME-IRU equipped) ORL CRG J51	Effective Times (UTC)
Bedford (BED)	SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR (Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	1100-0300
Beverly (BVY)	or (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR (Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	
Boston (BOS)	or (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR (Water-Turbojets) A699 PERMT AR16 KEMPR SBY J79 JFK ORW-STAR	1100-0300
Bridgeport (BDR)	or ORL J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED	1100-0400
Charlotte (CLT)	ORL J53 CRG J51 SAV J207 FLO CTF-STAR	
Chicago Midway (MDW)	(Turbojets-GPS or DME/DME IRU equipped) ORL J53 CRG J51 SAV HUSTN (RNAV)-STAR (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR	1100-0300
Chicago O'Hare (ORD)	or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	1100-0400
Cincipacti (CVC)	(RNAV)-STAR	1100-0300
Cincinnati (CVG)	(All Others) CTY J91 VXV HARDU-STAR or (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR	1100-0300
Cleveland (CLE)	ORL J53 SPA J85 TVTO40 KEATN KEATN-STAR ORL J81 IRQ J53 SPA J85 HVQ HNN	1100-0300
Cross City (CTY) Dallas/Ft Worth (DFW) Danbury (DXR)	BREMN-STAR. LAL. SRQ Q100 REDFN Q105 HRV J58 AEX CQY (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED	1100–0300 1030–0300
Daytona Beach (DAB) Denver (DEN)	RICED-STAR	1030-0300
Detroit/Wayne (DTW) Dixon (DIW) East Hampton (HTO)	CTY SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR ORL J53 SPA HNN WEEDA-STAR (Water-Turbojets) WOLFO AR18 (Water-Turbojets) A699 RAMJT AR18 DIW WETRO	
Farmingdale (FRG)	CEBEE SWL J121 HTO	
Fort Myers (RSW)	CEBEE SWL J121 SIE CAMRN-STAR	1030-0300

Terminals	Pouto	Times (UTC)
Hartford (HFD)	Route (Water–Turbojets) A699 PERMT AR16 ILM KEMPR	(010)
	SBY J79 JFK DPK MAD V1	
Houston (HOU)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	1000 0200
	COLUMBIA (RNAV)-STARor	1000-0300
	(GPS or DME/DME-IRU equipped) LAL J73 SZW	
	J2 SJI COLUMBIA (RNAV)-STAR	1000-0300
	Or (Non-advanced NAV only) LAL 172 S7W 12 CEW	
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR	1000-0300
Houston (IAH)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	
	WOLDE (RNAV)-STAR	1000-0300
	Or (CDS or DME /DME IBIL oquipped) LAL 172 S7W	
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR	1000-0300
	or	1000 0000
	(Non-advanced NAV only) LAL J73 SZW J2 CEW	
Indianandia (IMID)	J50 AEX DAS-STAR	1000-0300
Indianapolis (IND)Islip (ISP)	CTY J91 ATL J89 IIU DECEE-STAR(Water-Turbojets) A699 RAMJT AR18 DIW WETRO	1100-0300
ionp (ion)	CEBEE SWL J121 SARDI CCC	
Jacksonville (JAX)	ORL J53	1030-0300
Kennedy (JFK)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO	
	CEBEE J121 SIE CAMRN-STAR	1100-0300
	ORL J53 CRG J51 SAV J55 CHS J121 SIE	
	CAMRN-STAR	1000-0300
La Guardia (LGA)	(Water-Turbojets) A699 PERMT AR16 ILM J40 TYI	
	HPW J191 PXT KORRY-STAR	
	ORL J53 CRG J51 SAV J207 RDU J55 HPW J191	
	PXT KORRY-STAR	1100-0400
Lawrence (LWM)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR	
	or (Water-ALT-Turbojets) A699 RAMJT AR18 DIW	
	WETRO CEBEE SWL J174 HTO ORW	
	GRAYM-STAR	
Louisville (LOU)	CTY J91 ATL HCH DARBY-STAR	1100-0300
Manchester (MHT)	(Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN	
Minneapolis (MSP)	CTY J91 ATL J89 BAE EAU-STAR	1100-0300
Montreal (CYUL)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR	
	SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR	
Nashville (BNA) Nantucket (ACK)	CTY J91 ATL GQO VOLLS-STAR(Water-Turbojets) A699 RAMJT AR18 DIW WETRO	1100-0300
Nantuoket (Aori)	CEBEE SWL J174 HTO V46	
Newark (EWR)	(Water-GPS or DME/DME-IRU equipped) A699	
	PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR	
	or	
	ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK	
	DYLIN-STAR	1100-0300
	or (WATER) A699 PERMT AR16 ILM J109 FAK	
	DYLIN-STAR	
	or	
	(GPS or DME/DME-IRU equipped) ORL J53 CRG	
	J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR	1100-0300
Newburgh (SWF)	(Water–Turbojets) A699 PERMT AR16 ILM KEMPR	1100 0000
- ' '	SBY J79 JFK DPK HUDSON-STAR	
New Haven (HVN)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO	
	CEBEE SWL J121 SIE V139 RICED MAD193 KEYED	
Ocala (OCF)	LAL	1030-0300

Terminals	Route	Effective Times (UTC)
Orlando (MCO)	BAIRN GOOFY-STAR	1030-0300
Overwater Routes to the Northeast	(Water) A699 PERMT AR16 ILM or WOLFO AR18 DIW	1030-0300
Philadelphia (PHL)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL RADDS VCN-STAR or	
	ORL J53 CRG J51 SAV J55 CHS J121 SWL	1100 0200
Pittsburgh (PIT)	SWL034 RADDS VCN-STAR ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR	1100-0300
Poughkeepsie (POU)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR	
Providence (PVD)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR	
Raleigh/Durham (RDU)	(Water-Turbojets) A699 PERMT AR16 ILM BRADE-STAR	
St. Louis (STL)	ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR TBIRD CTY J151 VISQA QBALL-STAR or	1100-0400
Springfield (CEF)	(/E,/G,/R,/J,/L,/O) TBIRD KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR	
Tallahassee (TLH)	SBY J79 VILLS DPK DPK-STARLAL	1030-0300
Tampa (TPA)	LBV BRDGE-STAR	1030-0300
	BRDGE BRDGE-STAR	1030-0300
Toronto (CVV7)	(GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STARor (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR	1000-0300
Toronto (CYYZ)	(Water–Turbojets) A699 PERMT AR16 ILM J109 BUF YOUTH–STAR	
Washington Dulles (IAD)	(Water-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J109 FAK BARIN-STAR or	
	(Water) A699 PERMT AR16 ILM J109 FAK COATT-STAR	
	or (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR	
Washington Netl (DCA)	ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR	
Washington Natl (DCA)	(Water) A699 PERMT AR16 ILM J40 RIC IRONS-STARor	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR	
Westfield (BAF)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR	
Westhampton Beach (FOK)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO	
White Plains (HPN)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR or	
	(Water-Turboprops) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED	
Wilmington (ILM)	RICED-STAR(Water-Turbojets) A699 PERMT AR16	

Terminals	Route	Effective Times (UTC)
Windsor Locks (BDL)	(Water-Turbojets) PERMT A699 AR16 ILM KEMPR SBY J179 VILLS DPK DPK-STAR	(0.0)
Worcester (ORH)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD	
PENSACOLA (PNS)		
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR	0000–2359
	or (non-advanced RNAV only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI	2222 2252
Houston (HOU)	KNOX-STAR(GPS or DME/DME-IRU equipped) ROMMY HRV	0000-2359
	COLUMBIA (RNAV)-STARor	1000-0300
Houston (IAH)	(Non-advanced NAV only) SJI AEX DAS-STAR (GPS or DME/DME-IRU equipped) ROMMY HRV	1000-0300
, ,	WOLDE (RNAV)-STAR	1000-0300
1	or (Non-advanced NAV only) SJI AEX DAS-STAR	1000-0300
PORT AU PRINCE (MTPP)		
Atlanta (ATL)	(if unable FL370 by CVIKK) JOSES A315 ZIN FLL ORL CRG SINCA-STAR or	
	ALBBE A636 ZIN FLL ORL CRG CANUK (RNAV)-STAR	
	or (if unable FL370 by CVIKK) ALBBE A636 ZIN FLL ORL CRG SINCA-STAR	
	or (if unable FL370 by CVIKK) JOSES A315 ZIN FLL	
	ORL CRG CANUK (RNAV)-STAR	
Kennedy (JFK)	BOTES G444 GTK M594 CERDA LUCTI L454 OWENZ CAMRN	
	or BOTES G444 GTK M594 CERDA L453 AZEZU	
	BERGH L454 OWENZ CAMRN	
	or BOTES G444 GTK L452 OXANA AR8 ECG ORF	
	J121 SIE CAMRN-STAR	
	or	
	JOSES A315 ZIN A756 DUKKY A555 ZQA AR3 PANAL DIW WETRO CEBEE SWL J121 SIE	
	CAMRN-STAR	
Newark (EWR)	ALBBE M594 CERDA LUCTI L454 BERGH L454	
	OWENZ CYN GXU RBV V249 METRO or	
	ALBBE M594 GTK L452 OXANA AR8 ECG FAK DYLIN-STAR	
	ALBBE M594 GTK L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR	
RALEIGH-DURHAM (RDU)		
Albany (ALB)	TYI J79 SBY J79 JOANI LGA LGA055 V487 V130	1100-0400
Atlanta (ATL)	PACKK-DP AZELL CAE J4 IRQ SINCA-STAR or	1100-0400
	(RNAV only) PACKK-DP AZELL CAE J4 IRQ CANUK RNAV-STAR	1100-0400
Boston (BOS)	TYI J79 JFK ORW-STAR	4400 0400
Chicago Midway (MDW) Chicago O'Hare (ORD)	PACKK-DP AZELL PSK HVQ FWA GOSHEN-STAR	1100–0400
Unicago o Haie (UND)	(/E/G/R/J/L/Q only) PACKK-DP AZELL HMV FLM HEVAN MZZ ROYKO (RNAV)-STAR	1100-0400
	or (non-advanced RNAV only) PACKK-DP AZELL HMV	
	FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR .	1100-0400

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Terminals	Route	Times (UTC)
Cincinnati (CVG)	(RNAV only) HMV JAKIE (RNAV)-STAR	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Columbia (CAE)	(all others) HMV HARDU-STAR	1100-0400 1100-0400
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB BAHAA AR21 CRANS FISEL (RNAV)-STAR	
	(Turbojets) TARL-DP CHS J79 OMN GISSH-STAR . or	
	(Water–Turbojets) TARL–DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH–STAR or	
	(Turboprops) TARL-DP CHS J79 OMN MLB BLUFI-STARor	
	(Water-Turboprops-GPS or DME/DME-IRU equipped) TARL-DP CLB BAHAA AR21 CRANS FISEL (RNAV)-STAR	
Houston (HOU)	(Water-Turboprops) TARL-DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH-STAR(GPS or DME/DME-IRU equipped) VUZ JAN AEX ROKIT (RNAV)-STAR	
Houston (IAH)	(Non-advanced NAV only) VUZ JAN AEX DAS-STAR(Turbojets-GPS or DME/DME-IRU equipped) VUZ	
,	JAN AEX TXMEX (RNAV)-STAR	
Kennedy (JFK) La Guardia (LGA) Miami (MIA)	(Non-advanced NAV only) VUZ JAN AEX DAS-STAR TYI ORF J121 SIE CAMRN-STAR LVL HPW J191 PXT KORRY-STAR (Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN HILEY (RNAV)-STAR or	1100-0400
	(Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR22 JORAY HILEY (RNAV)-STARor (Turbojets) TARL-DP CHS J79 OMN ANNEY-STAR.	
	or (Water-Turbojets) TARL-DP CLB SEELO AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS	
Newark (EWR)	(Turboprops) TARL-DP CHS J79 OMN ANNEY-STAR LVL FAK DYLIN-STAR	1100-0300
	or (GPS or DME/DME-IRU equipped) LVL FAK PHLBO (RNAV)-STAR	1100-0300
Newburgh (SWF) Orlando (MCO)	TYI J79 JFK BDR V91 STUBY(Turbojets) TARL-DP CHS J79 OMN BITHO-STAR	1100-0300 1100-0400
Orlando (ORL) Palm Beach (PBI)	(GPS or DME/DME-IRU equipped) TARHEEL-DP CHS J79 OMN CWRLD (RNAV)-STAR (Turbojets) TARL-DP CHS J79 OMN CORLL-STAR. (Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN FRWAY (RNAV)-STAR	1100-0400 1100-0400

Terminals	Route	Effective Times (UTC)
	or (Turbojets) TARL-DP CHS J79 OMN TUXXI-STAR	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR19 AYBID CAYSL (RNAV)-STAR	
Philadelphia (PHL)	or (Water-Turbojets) TARL-DP CLB SEELO AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL V3 FAK DPNT-STAR	1100-0400 1100-0400
Pittsburgh (PIT) Sarasota (SRQ) Savannah (SAV) Tampa (TPA)	PACK-DP ROA EKN IHD NESTO-STAR FAY-DP FAY CAE J75 TAY J85 GNV LAL TARL-DP CHS FAY-DP FAY CAE J75 TAY LZARD-STAR	1100-0400 1100-0400 1100-0400 1100-0400
Window Looke (PDL)	or (GPS or DME/DME-IRU equipped) FAY-DP FAY CAE J75 TAY DADES (RNAV)-STAR	1100-0400
Windsor Locks (BDL)	TYI J79 SBY J79 JFK DPK-STAR HARDE A555 ZQA FLL ORL CRG CANUK	1100-0400
	(RNAV)-STAR or HARDE A555 ZQA FLL ORL CRG SINCA-STAR or	
Atlantic City (ACY)	CONCH R507 ELMUC L451 LETON L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE	
Baltimore (BWI)	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC	
	NOTTINGHAM-STARor	
Bedford (BED)	ELMUC L451 OLDEY AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR ELMUC L454 LUCTI OWENZ HTO ORW	
	GRAYM-STAR or ELMUC L451 CERDA L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR	
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	
	or ELMUC L451 LETON L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM—STAR	
Charlotte (CLT)	ELMUC L451 OLDEY CHS CHESTERFIELD-STAR or	
Cincinnati (CVG)	ELMUC L451 OLDEY CHS HUSTN (RNAV)-STAR ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV JAKIE (RNAV)-STAR	
Cleveland (CLE)	ELMUC L451 OLDEY METTA CHS SPA CAE VXV JAKIE (RNAV)-STAR ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HVQ TVT KEATN-STAR	
Dayton (DAY)	ELMUC L451 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV J43 FLM KEKEE-STAR	

Terminals	Route
	ELMUC L451 OLDEY METTA CHS CAE VXV J43 FLM KEKEE-STAR
Detroit (DTW)	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HNN WEEDA-STAR
	or ELMUC L451 OLDEY METTA CHS SPA HNN
Indianapolis (IND)	WEEDA-STAR ELMUC L451 CERDA LNHOM L452 OXANA AR8
	or ELMUC L451 OLDEY METTA CHS SPA CAE VXV
Kennedy (JFK)	J89 IIU V51 DECEE DECEE-STAR ELMUC L454 LUCTI L454 OWENZ CAMRN
	or ELMUC L453 LAMER L453 AZEZU BERGH L454
	OWENZ CAMRN or ELMUC L451 OLDEY AR3 PANAL DIW WETRO
	CEBEE SWL J121 SIE CAMRN-STAR
Louisville (SDF)	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY-STAR
	or ELMUC L451 OLDEY METTA CHS SPA HCH DARBY-STAR
Newark (EWR)	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK DYLIN-STAR
	or
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR
	ELMUC L454 LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO
	ELMUC L451 CERDA L453 AZEZU BERGH L454
Ottawa (CYOW)	OWENZ CYN GXU RBV V249 METRO ELMUC L454 LUCTI L454 JFK SYR J599
	or ELMUC L451 CERDA L453 AZEZU BERGH L454 JFK SYR J599
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SYR J599
	ELMUC L451 OLDEY AR3 CLB ILM SYR J599
Providence (PVD)	ELMUC L454 LUCTI L454 BERGH OWENZ HTO JORDN
	or ELMUC L451 CERDA L453 AZEZU BERGH OWENZ
	HTO JORDN
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN
	or ELMUC L451 OLDEY AR3 PANAL DIW SWL J174
Quebec (CYQB)	HTO JORDN ELMUC L454 LUCTI L454 JFK PLB J560 or
	ELMUC L451 CERDA L453 AZEZU BERGH L454 JFK PLB J560
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG ORF SBY J209 VILLS SAX J6 PLB J560 or
	ELMUC L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560

Terminals Raleigh–Durham (RDU) Teterboro (TEB)	Route ELMUC L451 OLDEY ILM BRADE-STARELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG FAK JAIKE (RNAV)-STARor ELMUC L451 CERDA L453 AZEZU BERGH L454
	OWENZor
	ELMUC L454 LUCTI L454 OWENZor
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR
Washington (DCA)	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS-STARor
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)-STAR
	ELMUC L451 OLDEY AR3 CLB ILM J40 RIC IRONS-STAR
	ELMUC L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR
Washington (IAD)	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK BARIN (RNAV)-STAR
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK COATT-STAR
	or ELMUC L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR
	or ELMUC L451 OLDEY AR3 CLB ILM J109 FAK
White Plains (HPN)	COATT-STAR ELMUC L454 LUCTI L454 OWENZ
	or ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE BOUNO-STAR
	ELMUC L451 OLDEY ECG ORF J121 SIE BOUNO-STAR
Winsor Locks (BDL)	ELMUC L454 LUCTI L454 JFK DBK DEER PARK-STAR
	or ELMUC L451 LETON L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK DPK DEER PARK-STAR
	Or ELMUC L451 CERDA LNHOM L452 OXANA AR8
Winnipeg (CYWG)	ECG SBY J79 JFK DPK DEER PARK-STAR ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG IIU J99 BAE MSP
	or ELMUC L451 OLDEY METTA CHS VXV J89 IIU J99 BAE MSP
ANTO DOMINGO (MDSD)	
Altantic City (ACY)	BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J121 SIE
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J121 SIE
	JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J121 SIE

Terminals	Route
Baltimore (BWI)	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR
	BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC NOTTINGHAM-STAR
	or BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC RAVNN (RNAV)-STAR
	or JUELE L463 NUCAR AR3 CLB ILM J40 RIC NOTTINGHAM-STAR
	or JUELE L463 NUCAR AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR
Bangor (BGR)	BESAS L464 CERDA LUCTI L454 BERGH HTO LFV J79
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO LFV J79
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK HTO LFV
Bedford (BED)	BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR
	or BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR
	or BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO ORW GRAYM-STAR
	or JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR
Boston (BOS)	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J49 JFK INNDY (RNAV)-STAR
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK INNDY (RNAV)-STAR
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK NORWICH-STAR
	or BESAS L464 LAMER L453 AZEZU BERGH L454 JFK NORWICH-STAR
	or BESAS L464 LAMER L453 AZEZU BERGH L454 JFK INNDY (RNAV)-STAR
	or JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR
Charlotte (CLT)	BESAS L464 CERDA L451 OLDEY CHS CHESTERFIELD-STAR
	or BESAS L464 CERDA L451 OLDEY CHS HUSTN (RNAV)-STAR

Terminals	Route
	or JUELE L463 NUCAR AR3 OLDEY CHS CHESTERFIELD-STAR
	JUELE L463 NUCAR AR3 OLDEY CHS HUSTN
Chicago O'Hare (ORD)	(RNAV)-STAR JUELE L463 NUCAR AR3 OLDEY AR4 CH SPA HMV FLM J24 BIGXX ROYKO (RNAV)-STAR
Cincinnati (CVG)	BESAS L464 CERDA L451 OLDEY METTA CHS SPA HMV JAKIE (RNAV)-STAR
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK J24 HVQ HNN JAVIT-STAR
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA
Cleveland (CLE)	HMV JAKIE (RNAV)-STAR BESAS L464 CERDA L451 OLDEY METTA CHS
,	CAE HVQ TVT KEATN-STAR
	or BESAS L464 CERDA LNHOM L452 OXANA AR8
	ECG HVQ TVT KEATN-STAR
	or JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE
Davidson (DAV)	HVQ TVT KEATN-STAR
Dayton (DAY)	BESAS L464 CERDA L451 OLDEY METTA CHS CAE SPA HMV FLM KEKEE-STAR
	or BESAS L464 CERDA LNHOM L452 OXANA AR8
	ecg fak J24 HVQ HNN
	JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE
Detroit (DTW)	SPA HMV FLM KEKEE-STAR BESAS L464 CERDA LNHOM L452 OXANA AR8
Bedon (B111)	ECG HNN WEEDA-STAR
	BESAS L464 CERDA L451 OLDEY METTA CHS SPA HNN WEEDA-STAR
	or JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA
Indianapolis (IND)	HNN WEEDA-STAR BESAS L464 CERDA LNHOM L452 OXANA AR8
	ecg IIU V51 DECEE DECEE-STAR
	BESAS L464 CERDA L451 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR.
	or JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA
Kannady (IEK)	CAE VXV J89 IIU V51 DECEE DECEE-STAR
Kennedy (JFK)	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CAMRNor
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE CAMRN-STAR
	BESAS L464 CERDA LUCTI L454 OWENZ CAMRN .
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR or
	JUELE L463 NUCAR AR3 PANAL DIW WETRO
La Guardia (LGA)	CEBEE SWL J121 SIE CAMRN-STAR BESAS L464 LAMER L453 AZEZU BERGH L454
	OWENZ CAMRN
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HPW J191 PXT KORRY-STAR

Route
or BESAS L464 CERDA LUCTI L454 OWENZ CAMRN .
BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 TYI HPW J191 PXT KORRY-STAR
or JUELE L463 NUCAR AR3 CLB ILM J40 TYI HPW J191 PXT KORRY-STAR
BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY-STAR
BESAS L464 CERDA L451 OLDEY METTA CHS SPA HCH DARBY-STAR
JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HCH DARBY-STAR
BESAS L464 LAMER L453 AZEZU BERGH L454 JFK J37 ALB J6 PLB PLATTSBURGH-STAR
or JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY
J79 JFK J37 ALB J6 PLB PLATTSBURGH-STAR
BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR
or BESAS L464 LAMER L453 AZEZU BERGH L454
OWENZor
BESAS L464 CERDA LUCTI L454 OWENZor
BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR
or JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE
(RNAV)-STARBESAS L464 CERDA LNHOM L452 OXANA AR8
ECG FAK DYLIN-STARor
BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR
or
BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CYN GXU RBV V249 METRO
BESAS L464 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO
or
BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK DYLIN-STAR
or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR
JUELE L463 NUCAR AR3 CLB ILM J109 FAK DYLIN-STAR
or JUELE L463 NUCAR AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR
BESAS L464 CERDA LUCTI L454 JFK SYR J599
or BESAS L464 LAMER L453 AZEZU BERGH L454 JFK SYR J599
or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SYR J599or

Terminals	Route
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM SYR J599
Philadelphia (PHL)	or JUELE L463 NUCAR AR3 CLB ILM SYR J599 BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL RADDS CEDAR LAKE-STAR
	or BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL RADDS CEDAR LAKE-STAR
Providence (PVD)	BESAS L464 LAMER L453 AZEZU B24 SIE BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO JORDN
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO JORDN
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN
	or JUELE L463 NUCAR AR3 PANAL DIW SWL J174 HTO JORDN
Quebec (CYQB)	BESAS L464 CERDA LUCTI L454 JFK PLB J560 or
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK PLB J560
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 or
	JUELE L463 NUCAR AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560
Raleigh/Durham (RDU)	BESAS L464 CERDA L451 OLDEY ILM BRADE-STAR
Teterboro (TEB)	or JUELE L463 NUCAR ILM BRADE-STAR BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR
	or BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ
	or BESAS L464 CERDA LUCTI L454 OWENZ
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR
Toronto (CYYZ)	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK J63 HUO CFB J95 BUF YOUTH
	(RNAV)-STAR
	JUELE L463 NUCAR AR3 CLB ILM J109 BUF YOUTH (RNAV)-STAR
Washington (DCA)	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS-STAR

Terminals	Route	Effective Times (UTC)
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)-STAR	
	OF BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 RIC IRONS-STAR	
	OF BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR	
	or JUELE L463 NUCAR AR3 CLB ILM J40 RIC IRONS-STAR	
Wachington (IAD)	UI JUELE L463 NUCAR AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR	
Washington (IAD)	FAK BARIN (RNAV)-STAR	
	BESAS L464 CERDA LNHOM L452 OXANA ECG FAK COATT-STAR	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK COATT-STAR	
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR	
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK COATT-STAR	
White Plains (HPN)	BESAS L464 CERDA L451 OLDEY ECG ORF J121 SIE BOUNO-STAR	
	or JUELE L463 NUCAR AR3 PANAL DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR	
	BESAS L464 CERDA LUCTI L454 OWENZor	
	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ	
Windsor Locks (BDL)	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE BOUNO-STAR BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	KEMPR SBY J79 JFK DPK DPK-STARor	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DPK-STAR or	
Winnipeg (CYWG)	JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK DPK DPK-STAR	
	BESAS L464 CERDA L451 OLDEY METTA CHS VXV J89 IIU J99 BAE MSP	
CADACOTA DDADENTON ADEA (ODO)	JUELE L463 NUCAR AR3 OLDEY METTA CHS VXV J89 IIU J99 BAE MSP	
SARASOTA-BRADENTON AREA (SRQ) Baltimore (BWI)	TAY J75 CAE J52 RIC OTT-STAR	1100-0300
	(GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR	1100-0300

erminals Charlotte (CLT)	Route TAY J85 IRQ UNARM-STAR	Times (UTC)
Sharlotte (SE1)	or	
	(Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR	
Chicago Midway (MDW)	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK	
,	FISSK (RNAV)-STAR	1100-0300
	(non-advanced RNAV only) CTY J91 ATL J89 IIU	
Objects O'llers (ODD)	OKK V285 CLEFT OXI CGT	1100-0300
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	
	(RNAV)-STARor	0000–2359
	(non-advanced RNAV only) CTY J91 ATL CADIT	
	GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33	0000 0050
Cincinnati (CVG)	OXI KNOX-STAR(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR	0000–2359
monnaci (ova)	or	
	(all others) CTY J91 VXV HARDU-STAR	
Cleveland (CLE)	PIE J119 TAY J85 TVT040 KEATN KEATN-STAR	
columbus (CMH) Pallas/Ft. Worth (DFW)	PIE J119 TAY J85 HVQ HNN BREMN-STAR (Water) SRQ Q100 REDFN Q105 HRV J58 AEX	
	CQY	
enver (DEN)	(Water) Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR	
Petroit/Wayne (DTW)	PIE TAY J85 SPA HNN WEEDA-STAR	
etroit Satellites: Ann Arbor (ARB), Pontiac (PTK), Willow		
un (YIP)	PIE J119 TAY J85 IRQ J99 VXV J43 FLM DQN	
	CRUXX-STAR	
Young (DET)	PIE J119 TAY J85 DJB LLEEO-STAR	4000 0000
ort Lauderdale (FLL)	(all others) RSW FORTL–STAR	1030-0300
	(GPS or DME/DME-IRU equipped) RSW FORTL	
	JINGL (RNAV)-STAR	
ouston (HOU)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	
	COLUMBIA (RNAV)-STAR	
	or (GPS or DME/DME-IRU equipped) SZW J2 SJI	
	COLUMBIA (RNAV)-STAR	
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	
louston (IAH)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	
. ,	WOLDE (RNAV)-STAR	
	Or	
	(GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR	
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	
ndianapolis (IND)	CTY J91 ATL J89 IIU DECEE-STAR	
a Guardia (LGA)	TAY J75 DUNKN J210 VAN FLO J207 RDU J55	
ouisville (LOU, SDF)	HPW J191 PXT KORRY-STAR CTY J91 ATL HCH DARBY-STAR	
finneapolis (MSP)	CTY J91 ATL J89 BAE EAU-STAR	
lashville (BNA)	CTY J91 ATL GQO VOLLS-STAR	1100-0300
Newark (EWR)	TAY J75 CAE J51 FAK DYLIN-STAR	1100-0300
	or (GPS or DME/DME-IRU equipped) TAY J75 CAE	
	J51 FAK PHLBO (RNAV)-STAR	1100-0300
Philadelphia (PHL)	TAY J75 CAE J51 FAK DPNT-STAR	
Pittsburgh (PIT)	TAY J75 CAE PSK J53 EKN IHD NESTO-STAR	0700 0000
Windsor Locks (BDL)	TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR	0700–0000
AVANNAH (SAV)	CHE 170 TVI 140 DIC OTT CTAD	1100 0400
Baltimore (BWI)	CHS J79 TYI J40 RIC OTT-STAR	1100-0400

Terminals Philadelphia (PHL) Washington Dulles (IAD)	Route CHS J121 SWL SWL SWL034 RADDS VCN-STAR J207 RDU FAK COATT-STAR or (GPS or DME/DME-IRU equipped J207 RDU FAK BARIN-STAR	Effective Times (UTC) 1100-0400
TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF)		
Atlanta (ATL)	SZW LGC-STAR	
Baltimore (BWI)	(RNAV only) SZW HONIE (RNAV)-STAR TAY J75 CAE J52 RIC OTT-STAR	1100-0400
Boston (BOS)	(GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR TAY J75 DUNKN J210 J79 JFK ORW-STAR TAY J85 IRQ UNARM-STAR	1100-0400 1100-0400
Chicago Midway (MDW)	(Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR	1100-0300
Chicago O'Hare (ORD)	or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK MZZ ROYKO (RNAV)-STAR or	1100-0300 0000-2359
Cincinnati (CVG)	(non-advanced RNAV only) CTV J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR	0000-2359
Cleveland Metro (CLE)	PIE J119 TAY J85 TVT040 KEATN KEATN-STAR or	
Columbus (CMH)	CTY J91 HNN TVT KEATN-STAR PIE J119 TAY J85 HVQ HNN BREMN-STAR or	
Denver (DEN)	CTY J91 HNN BREMN-STARSZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR	
Detroit/Wayne (DTW) Detroit Satellites: Ann Arbor (ARB), Pontiac (PTK), Young	TAY J85 SPA HNN WEEDA-STAR	
(DET)	CTY J91 VXV J43 FLM DQN CRUXX-STAR CTY J91 VXV J43 FLM DQN V98 VQQ CRUXX PIE J119 TAY J85 DJB LLEEO-STAR	
(HWO), Opa Locka (OPF)	(all others) RSW FORTL-STARor (GPS OR DME/DME-IRU equipped) SABEE RXXAN	1030-0300
Fort Myers (RSW), (FMY)	JINGL (RNAV)-STAR(Turbojets-GPS or DME/DME-IRU equipped) SRQ	
	TYNEE (RNAV)-STAR	1020 0200
Fort Pierce (FPR)	VRB(GPS or DME/DME-IRU equipped) SIMMR REMIS Q100 LEV COLUMBIA (RNAV)-STAR	1030-0300 1000-0300
	or (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR	1000-0300
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	1000-0300

Terminals	Route	Effective Times (UTC)
Houston (IAH)	(GPS or DME/DME-IRU equipped) SIMMR REMIS Q100 LEV WOLDE (RNAV)-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR	1000-0300
	or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	1000-0300
Indianapolis (IND)	CTY J91 ATL J89 IIU DECEE-STAR TAY J75 J210 J121 SIE CAMRN-STAR	4000 0000
Key West (EYW) La Guardia (LGA)	RSW J41TAY J75 DUNKN J210 VAN FLO J207 RDU J55	1030-0300
Louisville (SDF)	HPW J191 PXT KORRY-STAR	1100-0400
Miami (MIA)	or	1030-0300
Minneapolis (MSP)	(Turbojets-GPS or DME/DME-IRU equipped) RSW CYY SSCOT (RNAV)-STAR CTY J91 ATL J89 BAE EAU-STAR	
Nashville (BNA)	CTY J91 ATL J89 BAE EAU-STAR	1100-0400
Newark (LWII)	or (GPS or DME/DME–IRU equipped) TAY J75 CAE	1100-0400
Philadelphia (PHL)	J51 FAK PHLBO (RNAV)-STAR	1100-0400 1100-0400
Pittsburgh (PIT) Raleigh–Durham (RDU)	TAY J75 CAE PSK EKN IHD NESTO-STAR TAY J75 CAE BUZZY-STAR	1100-0400
Washington Dulles (IAD)	TAY J75 CAE J51 FAK COATT-STAR	1100-0400 1100-0400
Washington Nati (2011)	or GPS or DME/DME-IRU equipped) TAY J75 CAE	1100 0400
West Palm Beach (PBI)	J52 RIC OJAAY (RNAV)-STAR(Turbojets-GPS or DME/DME-IRU equipped)	1100-0400
Windsor Locks (BDL)	SABEE JOOOE WLACE (RNAV)-STAR TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR	0700-0000
From St Petersburg (PIE) only: Detroit/Wayne (DTW)	TAY J85 SPA HNN WEEDA-STAR	
Detroit Satellites: Ann Arbor (ARB), Pontiac (PTK) Willow		
Run (YIP) Windsor (CYQG), Young (DET)	CTY J91 VXV J43 FLM DQN CRUXX-STAR PIE J119 TAY J85 DJB LLEEO-STAR	

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR ATLANTA HARTSFIELD INTL ARPT (JETS AND TURBOPROPS)

NORTHEAST

Traffic originating North and East of J186 to No	orth of a line from ATL to RDU file:
	MOL WHINZ-STAR
	or
	MOL FLCON (RNAV)-STAR
	J145 ODF WHINZ-STAR
	Or
	J145 ODF FLCON (RNAV)-STARVXV WHINZ-STAR
	or
	VXV FLCON (RNAV)-STAR
	J186 ODF WHINZ-STAR
	or
	J186 ODF FLCON (RNAV)-STAR
	SPA ODF WHINZ-STAR
	or
	SPA ODF FLCON (RNAV)-STAR
SOUTHEAST	
Traffic originating South of a line from ATL to R	
	IRQ SINCA-STAR
	Or
	IRQ CANUK (RNAV)-STAR DBN SINCA-STAR
	or
	DBN CANUK (RNAV)-STAR
SOUTHWEST	DBN OANON (INIAV)-STAIN
Traffic originating West of J89 to South and We	est of J14 file:
	MEI LGC-STAR
	or
	MEI HONIE (RNAV)-STAR
	SZW LGC-STAR
	or
	SZW HONIE (RNAV)-STAR
	MGM LGG-STAR
	or
NORTHWEST	MGM HONIE (RNAV)-STAR
Traffic originating West and North of J43 to No.	rth of 111 file:
manic originating west and North of 545 to Nor	BWG RMG-STAR
	or
	BWG ERLIN (RNAV)-STAR
	BNA RMG-STAR
	or
	BNA ERLIN (RNAV)-STAR
	MEM RMG-STAR
	or
	MEM ERLIN (RNAV-STAR)

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA AIRPORTS (SATELLITE AIRPORTS ONLY JETS AND TURBOPROPS)

NOKTHEAST	
Traffic originating North and East of a line from	m ATL to VXV to North of a line from ATL to RDU file:
0 0	J48 ODF AWSON-STAR
	J145 ODF AWSON-STAR
	VXV AWSON-STAR
	J186 ODF AWSON-STAR
	SPA ODF AWSON-STAR
COLITICACT	5PA UDF AWSUN-51AR
SOUTHEAST	BBU 4 E 4 6 100 CU
Traffic originating South of a line from ATL to	
	IRQ TRBOW-STAR
	DBN TRBOW-STAR
SOUTHWEST	
Traffic originating West of J89 to South and W	/est of J14 file:
	MEI LGC MIKEE-STAR
	SZW LGC MIKEE-STAR
	MGM LGC MIKEE-STAR
NORTHWEST	
Traffic originating West and North of a line fro	m ATI to VXV to North of I14 file:
Traine originating treet and treets or a line to	GOO BUNNI-STAR
	RQZ BUNNI–STAR
	NQZ DONNI-OTAN
SPECIAL HIG	SH ALTITUDE ARRIVAL ROUTES
EUB CH	ARLOTTE TERMINAL AREA
I OK CII	ANLOTTE TENWINAL ANEA
NORTHEAST	
Traffic originating North and East of J53 to No	orth of a line from CLT to RDU file:
	LYH MAJIC-STAR
	RDU SUDSY (RNAV)-STAR
	ROA MAJIC-STAR
SOUTHEAST	NOA WAJIO-STAIL
	DDII to Couth and Fact of IE4 file.
Traffic originating South of a line from CLT to	
	FLO CTF-STAR
	FLO HUSTN (RNAV)-STAR
SOUTHWEST	
Traffic originating West of J51 to South of J11	
	ATL ADENA (RNAV)-STAR
	ATL UNARM-STAR
	IRQ ADENA (RNAV)-STAR
NORTHWEST	IRQ UNARM-STAR
NORTHWEST	IRQ UNARM-STAR
	IRQ UNARM-STAR

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR MEMPHIS TERMINAL AREA

NORTHEAST		
NONTHEAST		
Traffic entering Memphis ARTCC north of J118	3:	
	BNA WILDER-STAR	
	BWG WILDER-STAR	
	PXV WILDER-STAR	
NORTHWEST		
Traffic entering Memphis ARTCC on or west of		
	FAM GQE-STAR	
	ARG GQE-STAR	
	SGF ARG GQE-STAR	
	RZC GQE-STAR	4400 0000
COUTUEACT	FSM GQE-STAR	1100–0200
SOUTHEAST	0.	
Traffic entering Memphis ARTCC south of J11		
	VUZ HLI–STAR (MONDAY–FRIDAY)	1100 0000
SOUTHWEST	GQO HLI-STAR	1100-0200
	of 16:	
Traffic entering Memphis ARTCC on or south o	LIT MARVELL-STAR	
	TXK MARVELL-STAR	
	ELD MARVELL-STAR	
	SOS MARVELL-STAR	1100-0200
	SQS WARVELE-STAR	1100-0200
		Effective Times
Terminals	Route	(UTC)
Traffic entering Miami Center (ZMA) for northbour	nd Caribbean flights originating from Santo Domingo	UIR (MDCS) to:
FLL	(Advanced RNAV equipped) JUELE L463	
	BTLER A555 ZQA 054V CAREY DEKAL	
	WAVUN (RNAV)-STAR	
	WAVON (KNAV)-STAR	
	or	
	or	
	or JUELE L463 BTLER A555 ZQA 054V CAREY	
(Advanced RNAV equipped) RETAK A636 ZIN A315 HODGY ZQA 054V CAREY DEKAL	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL-STAR	
	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL-STAR	
A315 HODGY ZQA 054V CAREY DEKAL	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL-STAR	
A315 HODGY ZQA 054V CAREY DEKAL	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL-STAR or	
A315 HODGY ZQA 054V CAREY DEKAL	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL-STAR or	
A315 HODGY ZQA 054V CAREY DEKAL	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR or or RETAK A636 ZIN A315 HODGY ZQA 054V	
A315 HODGY ZQA 054V CAREY DEKAL WAVUN(RNAV)-STAR	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR or or RETAK A636 ZIN A315 HODGY ZQA 054V CAREY DEKAL DEKAL—STAR	
A315 HODGY ZQA 054V CAREY DEKAL WAVUN(RNAV)-STAR	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR or or RETAK A636 ZIN A315 HODGY ZQA 054V CAREY DEKAL DEKAL—STAR	
A315 HODGY ZQA 054V CAREY DEKAL WAVUN(RNAV)-STAR	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR or or RETAK A636 ZIN A315 HODGY ZQA 054V CAREY DEKAL DEKAL—STAR (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA FLIPR (RNAV)—STAR	
A315 HODGY ZQA 054V CAREY DEKAL WAVUN(RNAV)-STAR	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR or or RETAK A636 ZIN A315 HODGY ZQA 054V CAREY DEKAL DEKAL—STAR	
A315 HODGY ZQA 054V CAREY DEKAL WAVUN(RNAV)-STAR	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR	
A315 HODGY ZQA 054V CAREY DEKAL WAVUN(RNAV)-STAR	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR or Or RETAK A636 ZIN A315 HODGY ZQA 054V CAREY DEKAL DEKAL—STAR	
A315 HODGY ZQA 054V CAREY DEKAL WAVUN(RNAV)-STAR	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR or or RETAK A636 ZIN A315 HODGY ZQA 054V CAREY DEKAL DEKAL—STAR	
A315 HODGY ZQA 054V CAREY DEKAL WAVUN(RNAV)-STAR	or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR or or RETAK A636 ZIN A315 HODGY ZQA 054V CAREY DEKAL DEKAL—STAR (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA FLIPR (RNAV)—STAR or JUELE L463 BTLER A555 ZQA FOWEE —STAR or (Advanced RNAV equipped) RETAK A636 ZIN A315 HODGY FLIPR(RNAV)—STAR	

RETAK A636 ZIN A315 HODGY ZQA 054V.....

	Route	Times (UTC)
Traffic overflying Atlanta Center originating north a	ond east of a line from TYS to LAL (except DAY and PSK CAE SAV OMN BITHO-STAR	d CVG) for ZTL to MCO: 1100-0400
	J83 SPA CAE SAV OMN BITHO-STAR	1100-0400
	(GPS or DME/DME-equipped) PSK CAE SAV OMN CWRLD (RNAV)-STAR	1100-0400
	(GPS or DME/DME-IRU equipped) J83 SPA CAE SAV OMN CWRLD (RNAV)-STAR	1100-0400
Traffic overflying Atlanta Center Eastbound origina	ting South of a line from DFW to JFK:	
BDL	GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR	
BOS	(Turbojet only) GRD J209 RDU J207 FKN J79 JFK ORW-STAR	
	(Turboprop only) SIE J121 HTO V308 ORW	
	V16 WOONS	
BWI	SPA J14 RIC OTT-STAR	
	(GPS or DME/DME.IRU equipped) SPA J14	
	RIC RAVNN (RNAV)-STAR	
DCA	SPA J14 RIC IRONS-STAR	
	or	
	(GPS or DME/DME-IRU equipped) SPA J14	
EW/D	RIC OJAAY (RNAV)-STAR SPA J14 J15 FAK DYLIN-STAR	
EWR	or	
	(GPS or DME/DME.IRU equipped) SPA J14	
	J51 FAK PHLBO (RNAV)-STAR	
IAD	SPA J14 J51 FAK COATT-STARR	
JFK	GRD J209 ORF J121 SIE CAMRN-STAR	
LGA	AHN J208 HPW J191 PXT KORRY-STAR	
PHL	SPA J14 J51 FAK DPNT-STAR	
Northbound from over VXV with destination of CMF		
	VXV J91 HNN BREMN-STAR	
Traffic overflying Atlanta Center Northbound from C		
	SPA J85 HVQ HNN BREMN-STAR	
Traffic overflying Atlanta Center Northbound from		
Traffic arrestring Aklanta Contan Caribbarrad arisin	PSK HVQ HNN BREMN-STAR	
Traffic overflying Atlanta Center Southbound origin (except DAY and CVG) with destinations of FLL, FN	MY, MCO, MIA, PBI, RSW, SRQ and TPA file:	4400 0000
	PSK CAE	1100-0300
	J83 SPA J85 AMG	1100-0300
Traffic overflying Atlanta Center Southbound origin (with DAY and CVG) with destinations of FLL, FMY,	=	
	VXV J91 ATL OTK	1100-0300
	BNA J73 SZWor	1100-0300
	MGM J20 SZW	1100-0300
	BNA J73 SZW	1100-0300
	MGM J20 SZW	1100-0300

	Route	Effective Times (UTC)
Traffic originating South of Wilmington VORTAC (IL		(010)
EWR	ILM J109 FAK DYLIN-STARor or (GPS or DME/DME.IRU equipped) ILM J109	1100-0300
FRG	FAK PHLBO (RNAV)-STAR	1100-0300
LGA	CEBEE SWL J121 SIE CAMRN-STARILM TYI HPW J191 PXT KORRY-STAR	1100-0300 1100-0300
Traffic overflying Ormond Beach VORTAC (OMN) de	estined MIA:	
OMN	OMN J79 VRB HEATT-STAR	
Traffic entering Miami Center (ZMA) for southboun Nagua (MDCY):	d Caribbean flights on L452/L453/L454 to La Ro	omana (MDLR) and
ZMA	LETON L450 GTK ASIVO	
	or LNHOM L452 GTK ASIVO	
	LAMER L464 CERDA L453 ASIVO	
	or MLLER M594 CERDA L459 ASIVOor	
	NUCAR L463 RNDLY ASIVO	
Traffic entering Miami Center (ZMA) for southboun ZMA	d Caribbean flights on L452/L453/L454 to Puert LETON L450 SEKAR A554 PTAor	o Plata (MDPP):
	LNHOM L452 GTK A554 PTA	
	or LAMER L453 MACKI B891 PTA	
	LUCTI L454 MNDEZ M594 CERDA L453 MACKI B891 PTA	
	or MLLER M594 CERDA L453 MACKI B891	
	PTAor	
	NUCAR L463 RNDLY SEKAR A554 PTA or	
	WATRS M596 PTA	
Traffic entering Miami Center (ZMA) for southboun ZMA	LETON L450 SEKAR A554 CDO	Domingo (MDSD):
	or LNHOM L452 GTK L450 SEKAR A554 CDO or	
	LAMER L453 ASIVO CDO	
	or LUCTI L454 MNDEZ M594 CERDA L453 ASIVO CDO	
	or	
	MLLER M594 CERDA L453 ASIVO CDO or	
	NUCAR L463 RNDLY SEKAR A554 CDO	

	Route	Times (UTC)
Traffic entering Miami Center (ZMA) for southbound ZMA	d Caribbean flights on L452/L453/L454 to Port a	au Prince (MTPP):
<u> </u>	or	
	LNHOM L452 GTK G444 OBNor	
	LAMER L464 CERDA M594 GTK G444 OBN .	
Traffic entering Miami Center (ZMA) for southbound ZMA	d Caribbean flights on L452/L453/L454 to Saint LETON L451 ELMUC L451 ANUor	Johns Island (TAPA):
	LNHOM L452 JORGG L451 ELMUC L451	
	or	
	LAMER L453 CERDA L451 ELMUC L451 ANU	
	or	
	LUCTI L454 ELMUC L451 ANU	
Traffic entering Miami Center (ZMA) for southbound	d Caribbean flights on L452/L453/L454 to Bridge	etown (TBPB):
ZMA	LETON L451 ELMUC L454 ILURI A555 BGI or	
	LNHOM L452 JORGG L451 ELMUC L454	
	ILURI A555 BGIor	
	LAMER L453 CERDA L451 ELMUC L454	
	ILURI A555 BGI	
	LUCTI L454 ELMUC L454 ILURI A555 BGI	
Traffic entering Miami Center (ZMA) for southbound ZMA	LETON L451 ELMUC L454 ILURI A555 FOF	le France (TFFF):
	or LNHOM L452 JORGG L451 ELMUC L454 ILURI A555 FOF	
	or	
	LAMER L453 CERDA L451 ELMUC L454	
	ILURI A555 FOF	
	LUCTI L454 ELMUC L454 ILURI A555 FOF	
Traffic entering Miami Center (ZMA) for southbound Barthelemy (TFFJ) and Oranjestad–Roosevelt (TNC	E) and Sanit Maarten (TNCM) and The Valley (TQP	
ZMA	or	
	LNHOM L452 JORGG L451 ELMUC L451 PJM	
	or LAMER L453 CERDA L451 ELMUC L451 PJM	
	or LUCTI L454 ELMUC L451 PJM	
Traffic entering Miami Center (ZMA) for southbound		a Pitre (TFFR):
ZMA	R888 PPR	
	or LNHOM L452 JORGG L451 ELMUC L454	
	LEEOO MODUX R888 PPR	
	LAMER L453 CERDA L451 ELMUC L454	
	LEEOO MODUX R888 PPR	
	or	

R888 PPR

Effective Times

(UTC) Route Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Thomas Virgin Islands (TIST): ZMA LETON L451 ELMUC L454 PANMO JETSS..... or LNHOM L452 JORGG L451 ELMUC L454 PANMO JETSS or LAMER L453 CERDA L451 ELMUC L454 PANMO JETSS LUCTI L454 ELMUC L454 PANMO JETSS Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Croix Virgin Islands ZMA LETON L451 ELMUC L454 PANMO COY...... LNHOM L452 JORGG L451 ELMUC L454 PANMO COY LAMER L453 CERDA L451 ELMUC L454 PANMO COY LUCTI L454 ELMUC L454 PANMO COY...... Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Aguadilla (TJBO): ZMA LETON L451 ELMUC BQN..... or LNHOM L452 JORGG L451 ELMUC BQN or LAMER L453 CERDA L451 ELMUC BON LUCTI L454 ELMUC BQN Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJIG): ZMA LETON L451 ELMUC IDAHO BEANO LNHOM L452 JORGG L451 ELMUC IDAHO BEANO or LAMER L453 CERDA L451 ELMUC IDAHO BEANO LUCTI L454 ELMUC IDAHO BEANO...... Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Mayaguez (TJMZ): LETON L451 ELMUC MAZ ZMA or LNHOM L452 JORGG L451 ELMUC MAZ or

LAMER L453 CERDA L451 ELMUC MAZ or LUCTI L454 ELMUC MAZ

	Route	Times (UTC)
Traffic entering Miami Center (ZMA) for southbound	d Caribbean flights on L452/L453/L454 to Ponce LETON L451 ELMUC PSE	(TJPS):
	or LNHOM L452 JORGG L451 ELMUC PSE	
	or LAMER L453 CERDA L451 ELMUC PSE or	
	LUCTI L454 ELMUC PSE	
Traffic entering Miami Center (ZMA) for southbound ZMA	LETON L451 ELMUC IDAHO ROO6	uan (TJSJ):
	or LNHOM L452 JORGG L451 ELMUC IDAHO R006	
	or LAMER L453 CERDA L451 ELMUC IDAHO	
	or	
	LUCTI L454 ELMUC IDAHO R006	
Traffic entering Miami Center (ZMA) for southbound Charlestown (TKPN):	d Caribbean flights on L452/L453/L454 to Golden	n Rock (TKPK) and
ZMA	LETON L451 ELMUC L454 LEEOO DANDE G633 SKB	
	or LNHOM L452 JORGG L451 ELMUC L454	
	or	
	LAMER L453 CERDA L451 ELMUC L454 LEEOO DANDE G633 SKB	
	or LUCTI L454 ELMUC L454 LEEOO DANDE G633 SKB	
Traffic entering Miami Center (ZMA) for southbound of Spain (TTPP):		Point (TTCP) and Port
ZMA	LETON L451 ELMUC G431 DDP G449 POS	
	LNHOM L452 JORGG L451 ELMUC G431 DDP G449 POS	
	or LAMER L453 CERDA L451 ELMUC G431 DDP G449 POS	
	or LUCTI L454 ELMUC G431 DDP G449 POS or	
	GTK I 452 ANADA G449 POS	

PREFERRED IFR ROUTES HIGH ALTITUDE—SINGLE DIRECTION ROUTES

Airway	Segment Fixes	Direction Effective	Effective Times (UTC)
J14	Greensboro, NC to Richmond, VA	Northeast	1100-0300
J37	Coyle, NJ to Spartanburg, SC	Southwest	1100-0300
J40	Wilmington, NC to Richmond, VA	North	1100-0300
	3,		1100-0300
J48	Pottstown, PA to Foothills, GA	Southwest	
J51	Columbia, SC to Yardley, NJ	Northeast	1100-0300
J52	Columbia, SC to Richmond, VA	Northeast	1100-0300
J55	Florence, SC to HUBBS Int., VA	Northeast	1100-0300
J75	Modena, PA to Greensboro, NC	Southwest	1100-0300
J89	Atlanta, GA to HITTR Int, FL	South	1100-0300
J91	Cross City, FL to Atlanta, GA	North	1100-0300
J109	Wilmington, NC to Buffalo, NY	North	1100-0300
J165	Charleston, SC to Richmond, VA	North	1100-0300
J191	Wilmington, NC to Robbinsville, NJ	North	1100-0300
J193	HUBBS Int., VA to Wilmington, NC	South	1100-0300
J207	Florence, SC to Franklin, VA	Northeast	1100-0300
J208	Athens, GA to Hopewell, VA	Northeast	1100-0300
J209	Greenwood, SC to Norfolk, VA	Northeast	1100-0300

458 Q-ROUTES

GULF OF MEXICO "Q ROUTES"

These area navigation routes extend more than 12 miles off shore in airspace controlled by the Federal Aviation Administration (FAA). Additional regulatory information for these routes can be found in the Notices to Airmen Publication, Part 3, International Notices to Airmen.

These routes have a Minimum Obstruction Clearance Altitude (MOCA) of 1500 feet (MSL). The Minimum Enroute Altitude (MEA) for these routes is 6000 feet (MSL).

Q100

LEV VORTAC

REDFN N28°52.98'/W088°42.11'
ROZZI N28°18.87'/W086°42.31'
REMIS N27°53.04'/W085°15.47'

SRQ VORTAC

0102

LEZ VORTAC

BLVNS N28°22.94'/W088°02.05' BUNNZ N28°00.58'/W086°45.76' BACCA N27°35.51'/W085°20.66' CIGAR N27°29.61'/W084'46.99' BAGGS N27°08.06'/W082°50.45'

CYY VORTAC

Q105

HRV VORTAC

FATSO N29°41.40'/W089°47.08'
REDFN N28°52.98'/W088°42.11'
BLVNS N28°22.94'/W088°02.05'

O-ROUTES REGULATORY

Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this AF/D volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route Q1	Segment ELMAA-ERAVE	DME BTG, OLM, HQM, HUH, UBG
-	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
Q2	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
Q3	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
Q4	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME

	•	nur.
Route Q5	Segment HAROB-HISKU	OLM OND CVO FUC HOM UPC PTC LTL DCD HUH
Q3	HISKU-HARPR	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
Q7	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
_	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
Q9	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED,
		EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED,
	DEBDC DEBBB	SWR
Q11	REBRG-DERBB PAAGE-PAWLI	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV,
Q11	FAAGL=FAWLI	OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
Q13	All segments	None; GNSS required
Q15	All segments	None; GNSS required
Q19	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX
Q20	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
Q21	FUSCO-JUNCTION JONEZ-RAZORBACK	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST BYP, EOS, TUL, TXK, ADM, RZC, OKM
Q21 Q22	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
4	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
Q23	FORT SMITH-RAZORBACK	
Q24	LAKE CHARLES-BATON	AEX, DAS, LCH, MCB, LFT, BTR
	ROUGE	
	BATON ROUGE-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY
	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
Q25	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC
	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
Q26	WLSUN-POCKET CITY WALNUT RIDGE-DEVAC	BWG, PXV, ENL, BNA, TTH LIT, JKS,GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q27	FORT SMITH-ZALDA	OKM, SGF, RZC, EOS, TUL
Q28	GRAZN-PYRMD	EIC, LIT, ELD, OKM, TXK
	PYRMD-HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK
	HAKAT-ESTEE	ARG, LIT, FAM, SGF, MEM
	ESTEE-POCKET CITY	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
Q29	HARES-MEMPHIS	MEM, ARG, LIT, JAN, ELD, SQS
	MEMPHIS-SIDAE	MEM, PXV, BNA, BWG, ARG, ENL
000	SIDAE-POCKET CITY	PXV, TTH, BWG, ENL
Q30	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q31	DHART–JODOX JODOX–MARVELL	SQS, LIT, TXK SQS, LIT, ELD, MEM, ARG
	MARVELL-TIIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
	TIIDE-POCKET CITY	BWG, PXV, ENL, TTH
Q32	EL DORADO-GAGLE	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK
-	GAGLE-CRAMM	JAN, SQS, MEM, ARG, VUZ, BNA, LIT
	CRAMM-NASHVILLE	BWG, MEM, VUZ, BNA, GQO
	NASHVILLE-SWAPP	BWG, IIU, PXV, VXV, BNA, GQO
Q33	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
024	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
Q34	TEXARKANA-MATIE	LIT, SWB, TXK, BYP, EIC, ELD, SQS
	MATIE-MEMPHIS	LIT, ARG, MEM, ELD, SQS
Q35	MEMPHIS-SWAPP	BWG, ARG, MEM, MKL, SQS,PXV, BNA, GQO, IIU, VXV
Ų33	KIMBERLY-NEERO NEERO-WINEN	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE
	WINEN-CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK
	CORKR-DRAKE	TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD
		, ,,,

460 Q-ROUTES

Route	Segment	DME
Q36	RAZORBACK-TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
_	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IIU
	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IIU
Q38	ROKIT-INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX
	INCIN-LAREY	JAN, MCB, SWB, AEX
040	LAREY-BESOM ALEXANDRIA-DOOMS	JAN, JYU, MEI, SQS, VUZ AEX, SWB, LCH, JAN, HEZ, MCB
Q40	DOOMS-WINAP	JAN, SQS, MEI, MCB
	WINAP-MISLE	MEI, VUZ, JYU
042	KIRKSVILLE-STRUK	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
-	STRUK-DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK,
		OBK, GIJ, FWA, GSH, IRK
	DANVILLE-MUNCIE	GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM
	MUNCIE-HIDON	FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN,
		AIR, HVQ, CXR, EWC
	HIDON-BUBAA	AIR, APE, HNN, CXR, HVQ, EWC, DJB
	BUBAA-PSYKO	AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB
	PSYKO-BRNAN BRNAN-MAALS	PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE
	MAALS-SUZIE	ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK
	SUZIE-EAST TEXAS	JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN
	EAST TEXAS-ELIOT	HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
Q104	DEFUN-HEVVN	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG
	HEVVN-PLYER	PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD
	PLYER-SWABE	PIE, ORL, OMN, SRQ, TAY
	SWABE-ST PETERSBURG	LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG-	PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN
0106	CYPRESS SMELZ-BULZI	TAL OPL OWN BHK DIE CDC VPP TAY OTK DZD AMC SZW
Q100	BULZI-DRABK	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
Q108	GADAY-CLAWZ	MGM, SJI, CEW, JYU, PZD, OTK, MCN, SZW, LGC, TAY, AMG
Q110	THNOR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
0112	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
Q112	DEFUN-HEVVN HEVVN-INPIN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q116	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
C	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
Q118	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
Q501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU,
	CODUED CODINE	DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
Q502	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
Q302	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, MSP, MNM, ASP, TVC, GEP, RWF, BRD
	GOPHER-SOBME	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD
Q504	NOTAP-CESNA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC,
•		SAW, GRB, BRD
	CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
Q505	OMAGA-RIMBE	SSM, TVC, ASP, SAW, GRB
	RIMBE-CESNA	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	CESNA-HEMDI	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB
*Denotes Cri	tical DME Facility	

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by pitch (entry into) and catch (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

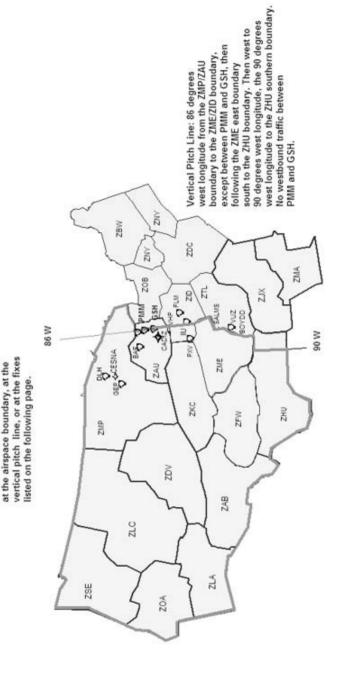
Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: http://sua.faa.gov/sua/Welcome.do. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

High Altitude Redesign (HAR) Phase One Expansion Airspace

Except as noted, flights entering HAR expansion airspace may pitch



HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIF

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque ABQ, GUP, HANOS or ZUN

Austin ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV

Boca Raton, FL TBIRD KPASA Q118 LENIE

or

TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI

or TBIRD SMELZ Q106 GADAY

Burbank includes GMN, MARKS

Santa Monica

and Van Nuys DAG LAS

HEC EED

PMD BLH

Chicago Terminal Area IOW, PLL275065, MZV or BAE

Dallas/Fort Worth Terminal Area ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK

ELD, SWB

or

Aircraft destined the Chicago terminal area

Except MDW

EAKER MIDEE BDF BRADFORD-STAR

Or

MLC J105 SGF BDF BRADFORD-STAR

Denver Terminal Area PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE,

CABET, WEEDS, OR BINKE

Fort Lauderdale (or) THNDR KPASA Q118 LENIE

Fort Lauderdale Executive

THNDR KPASA Q116 CEEYA

or

THNDR KPASA Q110 FEONA

or

THNDR SMELZ Q106 GADAY

or

THNDR SMELZ Q106 BULZI

Houston Bush LIT, EMG, MLC, JCT

or

Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR

or

Aircraft joining J37 to the northeast, BPT GUSTI Q22 CATLN

or

Aircraft joining J42 to the northeast, ELD Q32 J42

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LIT, EMG, MLC, JCT, Houston Hobby

Aircraft joining J42 to the northeast, ELD Q32 J42

Jacksonville, FL TAY

Kansas City Terminal Area TIFTO, CATTS or KENTN

GMN, RZS Los Angeles, includes Ontario or

DAG LAS

TRM EED or TRM PKE

DOBNE, MOSBI, NICLE, TRALR or ZELOT Las Vegas

Long Beach includes GMN SNS, EHF, LANDO

Orange County

TRM PKE or

TRM EED

Memphis BNA, HAAWK, SALMS or SQS Miami Terminal Area WINCO KPASA Q118 LENIE

> or WINCO KPASA Q116 CEEYA

WINCO KPASA Q110 FEONA

WINCO SMELZ Q106 GADAY

WINCO SMELZ 0106 BULZI

Milwaukee GREAS

Minneapolis Terminal Area* ONL, ABR, FAR, OBH, OVR, FOD

New Orleans Terminal Area AEX, MEI, SQS, KAPLN Orlando Terminal Area WEBBS BRUTS Q118 LENIE

> or WEBBS GULFR Q116 CEEYA

or

WEBBS BULZI Q106 GADAY

or

WEBBS FEONA

or

WEBBS BULZI

Palm Beach, FL TBIRD KPASA Q118 LENIE

TBIRD KPASA Q116 CEEYA

TBIRD KPASA Q110 FEONA

TBIRD SMELZ Q106 BULZI TBIRD SMELZ Q106 GADAY

TRM JOTNU BLD

Palm Springs

TRM EED

TRM PKE

CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK Phoenix

Portland, OR PDT, TIMEE Salt Lake City HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI

0

TCH J56 CHE or TCH J173 EKR

1011 311/3 LF

Saint Louis VIH, MAP, MYERZ, MCM

HLV MCI

San Antonio Terminal Area FUZ, SJT, MQP, ABI

or

Aircraft North of LFK, LFK or

Aircraft South of HUB, ELA

or

Aircraft South of LFK and North of HUB LCH

San Diego TRM EED

or

TRM PKE

TRM JOTNU BLD

San Francisco Bay Area GALLI, INSLO, HAROL JSICA
Oakland GALLI, INSLO, HAROL JSICA

San Jose GALLI or INSLO

Seattle BLUIT

Southwest Florida Airports

(RSW/FMY)

JOCKS KPASA Q118 LENIE

or

JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or

JOCKS SMELZ Q106 GADAY

or JOCKS SMELZ Q106 BULZI

Tampa Terminal Area FEONA, BULZI

or BRUTS 0118 LENIE

or

GULFR Q116 CEEYA or BULZI Q106 GADAY

Catch Points for Airports Located Outside HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area

Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA

or

Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC

or MEM or

Aircraft through ZME airspace from ZID airspace west of a line from VHP to

BWG, BNA

or

Aircraft through ZME airspace from ZID airspace east of a line from VHP to

BWG, BWG

UI

Aircraft through ZME airspace from ZFW airspace, MEM

or

MEI HONIE (RNAV)-STAR

or

PATYN HONIE (RNAV)-STAR

^{*}MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

466 HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

Baltimore-Washington* GIJ. GEP. FLM. IIU. BAE. VHP. WHETT. BNA or VUZ

Boston* GEP, CRL, ECK, IIU, BNA or VUZ

Buffalo* GEP, CRL
Hartford Bradley* GEP, CRL
Canton-Akron* GIJ, VHP, GEP
Charlotte BNA, VUZ
Cincinnati Terminal Area BNA, PXV

or

Aircraft north of SLC, JOT

, ...

Aircraft over or south of SLC, ENL

or

SLC or SFO departures, ENL, JOT

Cleveland Terminal Area* OBK

Detroit Terminal Area BAE MKG POLAR-STAR

or

VHP FWA MIZAR-STAR

Detroit Young VHP FWA

or

LAN SPRTN-STAR

Indianapolis Terminal Area BIB, SPI, JOT
Louisville ENL. MEM

Newark* GEP, VHP, FLM, IIU, BNA, VUZ

or

IOW GIJ J554 CRL J584 SLT FQM

New York Kennedy* GEP, VHP, FLM, IIU, BNA, VUZ

or

DBQ J94 PMM J70 LVZ LENDY-STAR

New York LaGuardia* GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area* GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ

Pittsburgh Terminal Area* VHP, GIJ, BAE, GEP
Pontiac LFD, LAN, VHP, FWA, GEP

Providence JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ

 Raleigh-Durham
 FLM, IIU, BNA, VUZ

 Toronto Terminal Area
 ECK, SVM, SSM, GEP

 Teterboro*
 GEP, VHP, CRL, BNA, VUZ

Washington Dulles/National* GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ

White Plains* GEP, VHP, CRL, FLM, IIU, BNA, VUZ

Willow Run* LAN, LFD, VHP, FWA, GEP

*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area CURLY CURLY-STAR

ESPAN FRIHO-STAR

LAVAN LAVAN-STAR

FTI FRIHO-STAR

MIERA MIERA-STAR

Austin Terminal Area Aircraft west of a north-south line at LFK, BLEWE

Aircraft east of a north-south line at LFK,IDU

LLO

Boca Raton, FL CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

DEFUN 0112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

SZW INPIN SHDAY (RNAV)-STAR

Chicago Midway CVA MOTIF-STAR

PIA MOTIF-STAR

DBQ CVA MOTIF-STAR

LMN MOTIF-STAR

Chicago O'Hare Terminal Area GEP DLL MSN JVL JANESVILLE-STAR

TVC PULLMAN-STAR

FOD DBQ JVL JANESVILLE-STAR

MCW JANESVILLE-STAR

GCK IRK BRADFORD-STAR

Dallas/Fort Worth Terminal Area IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR

Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM

Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW

Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS

Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area OATHE DANDD-STAR

or

HGO QUAIL-STAR

LOPEC-STAR

LOI LO-STAIN

or

ALS LARKS-STAR or

HBU POWDR-STAR

or EKR TOMSN-STAR

LIVI

CHE TOMSN-STAR

or

BFF LANDR-STAR

10

LBF SAYGE-STAR or

HCT SAYGE-STAR

or

RSK LARKS-STAR

Oi

LAA QUAIL-STAR

OI

GCK J154 RYLIE DANDD-STAR or

OCS J154 ALPOE RAMMS-STAR or

YANKI J114 SNY LANDR-STAR

Aircraft filed BIL or east, MBW RAMMS-STAR

Ft Lauderdale or CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR

Ft Lauderdale Executive Aircraft through ZHU airspace remain south ZME and ZTL

airspace

or

SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR

Houston Bush CRP, CVE, LLO, LUKIY, SAT

or

Aircraft south and east of LLA, LLA

MISLE Q40 AEX

or

Aircraft north and east of SJI, SJI

Aircraft east of PXV. PXV 031 DHART SWB

or

Aircraft north and west of PXV, PROWL Q33 DHART SWB

Houston Hobby CRP, ELLVR, SAT, SWB

or

Aircraft south and east of GIRLY, GIRLY

4:...

Aircraft north and east of SJI, SJI

or

BESOM Q38 ROKIT ROKIT-STAR

or

Aircraft east of PXV, PXV Q29 HARES SWB

or

Aircraft north and west of PXV, PROWL Q33 DHART SWB

Jacksonville GADAY ZOOSS TAY

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace or

ZOOSS TAY

John Wavne-Orange County HEC. PGS. BLD

Aircraft south of TBC from ZAB airspace, HIPPI

Kansas City Terminal Area LMN BRAYMER-STAR

PWE ROBINSON-STAR

EMP JHAWK-STAR

DILCO, LIDAT, IGM Las Vegas

Aircraft over PGA or north of PGA KSINO

Aircraft south of PGA PGS LYNSY

Los Angeles Terminal Area Aircraft North of TBC, HEC, PGS

Aircraft South of TBC from ZAB airspace, HIPPI,

MESSI

CEW DEFUN Q104 CYY DEEDS (RNAV)-STAR Miami Terminal Area

Aircraft through ZHU airspace remain south ZME and ZTL airspace

SZW HEVVN Q104 CYY DEEDS (RNAV)-STAR

Minneapolis Terminal Area Aircraft from north, west, south,

FAR GOPHER-STAR

RWF SKETR-STAR or ALO KASPR-STAR

BRD GOPHER-STAR

BAE EAU CLAIRE-STAR

FOD TWOLF-STAR

Memphis Terminal Area ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD

Naples, FL CEW DEFUN 0104 PLYER PIKKR (RNAV)-STAR

Aircraft through ZHU AIRSPACE remain south of ZME and ZTL

airspace

SZW HEVVN 0104 PLYER PIKKR (RNAV)-STAR

Nashville CCT, GHM, GUITR, TINGS, VOLLS New Orleans Terminal Area BLUEZ, GPT, LCH, MCB, TBD, FATSO

Oakland II A

KATTS PAMMY

Aircraft over or south of a line ILC J16 DVC

REANA KATTS PAMMY

Aircraft from north of ILC, JOPER PAMMY

KATTS PAMMY

Aircraft over or south of ILC, REANA KATTS PAMMY

Orlando Terminal Area GADAY Q108 CLAWZ LEESE-STAR

Aircraft through ZHU airspace remain south of ZME/ZTL

airspace

OTK LEESE-STAR

470 HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

Palm Beach, FL CEW DEFUN 0112 INPIN GULLO (RNAV)-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW INPIN GULLO (RNAV)-STAR

Phoenix CORKR DRK

Aircraft from ZDV airspace,

GUP

Aircraft from ZAB airspace,

ZUN, MOHAK, SSO

VYLLA TUS

Phoenix Satellites FLG, SSO, MOHAK

VYLLA, TUS

Portland, OR Terminal Area ARNIT BONVL-STAR

LARNO BONVL-STAR

MOXEE MOXEE-STAR

St. Louis Terminal Area SGF TRAKE-STAR

BUM TRAKE-STAR

ANX TRAKE-STAR

LMN IRK RIVRS-STAR

RBS VANDALIA-STAR

Salt Lake City Terminal Area JNC J12 HELPR SPANE-STAR

or

EKR MTU SPANE-STAR or

BCE DTA-TCH

or

MLF DTA-TCH

or

BVL BONNEVILLE-STAR

or

BYI BEARR-STAR

or PIH BEARR-STAR

or

DBS BRIGHAM CITY-STAR

or

JAC BRIGHAM CITY-STAR or

BPI BRIGHAM CITY-STAR

OCS BRIGHAM CITY-STAR

San Diego Terminal Area EED, LAX, GBN

Santa Ana HEC, PGS, BLD, HIPPI

San Antonio Terminal Area IDU, CSI, JCT, LLO, CRP, LRD

or

West of a north-south line at LFK, BLEWE

East of a north-south line at LFK, IDU

San Francisco FMG GOLDEN GATE-STAR

MVA MODESTO-STAR

ENI GOLDEN GATE-STAR

OAL MODESTO-STAR

South of a line ILC to DVC, REANA KATTS OAL MODESTO-STAR

San Jose FMG HYP EL NIDO-STAR

OAL HYP EL NIDO-STAR

ENI GOLDEN GATE-STAR

South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO-STAR

Seattle Terminal Area

Aircraft From northeast, southeast, south, TEMPL GLASR-STAR

SUNED CHINS-STAR

BTG OLMYPIA-STAR

Southwest Florida Airports CEW DEFUN Q104 SWABE JOSFF-STAR

RSW and FMY Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW HEVVN Q104 SWABE JOSFF-STAR

Tampa Terminal Area CEW DEFUN Q104 HEVVN DARBS-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW DARBS-STAR

Tucson DRK PXR

or

MOHAK GBN

VFR WAYPOINTS

VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

RAITIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

BALTIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART		
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI		N38°34.57′/W076°20.38′
VPONX		N39°06.65′/W076°55.92′
VPOOP		N38°56.32′/W076°36.90′
	BOSTON HELICOPTER CHART	
VPBAY	DOSTON HELIOOF TEN OHANT	N42°16.17′/W070°49.48′
VPBLT		N42°19.67′/W070°53.40′
VPCGS		N42°22.08′/W071°03.13′
VPEVS		N42°23.52′/W071°04.10′
VPFEN		N42°12.58′/W071°08.88′
VPFRE		N42°25.03′/W071°12.32′
VPGVL		N42°21.88′/W070°52.18′
VPHAM		N42°30.13′/W071°07.15′
VPPIK		N42°20.37′/W071°15.93′
VPQUA		N42°12.10′/W071°04.78′
VPQUB		N42°12.60′/W070°59.83′
VPSPF		N42°24.20′/W071°09.47′
VPTOB		N42°31.42′/W070°59.82′
VPWAN		N42°36.88′/W071°19.45′
	BOSTON TERMINAL AREA CHART	Γ
VPCOH	Cohasset	N42°13.58′/W070°48.94′
VPCUT	Cuttyhunk Harbor	N41°25.50′/W070°55.03′
VPFRA	Framingham Shopping Center	N42°18.16′/W071°23.65′
VPHOL	Woods Hole	N41°31.06′/W070°40.60′
VPHUL	Hull	N42°18.20′/W070°55.30′
VPLPT	Nantucket Great Point	N41°23.41′/W070°02.78′
VPNED	Needham Towers	N42°18.51′/W071°14.64′
VPPEA	Peabody Shopping Center	N42°32.52′/W070°56.69′
VPROC	Rockingham Race Track	N42°46.29′/W071°13.57′
VPSCI	Scituate Nation Print	N42°11.89′/W070°43.69′
VPTPT VPTUC	Nantucket Third Point	N41°18.51′/W070°03.37′
	Tuckernuck	N41°18.31′/W070°15.43′
VPWAK VPWAN	Wakefield Wang Towers	N42°30.72′/W071°05.24′ N42°36.88′/W071°19.45′
VEWAIN	_	
VPATO	CHARLOTTE SECTIONAL CHART	N34°37.37′/W076°31.47′
VPAVA		N34°57.00′/W077°16.50′
VPBFE		N32°16.38′/W080°47.50′
VPBRA		N36°13.75′/W076°08.08′
VPGCE		N36°03.90′/W076°36.42′
VPGHI		N35°15.30′/W075°31.25′
VPGIO		N35°32.50′/W076°37.33′
VPKJU		N35°26.58′/W076°10.22′
VPLMN		N34°55.43′/W077°46.42′
VPMAB		N34°42.20′/W077°03.50′
VPNPO	ISLE OF PALMS	N32°47.78′/W079°46.45′
VPOKY		N35°06.53′/W075°59.17′
VPREP		N32°33.98′/W080°21.82′
VPRRS		N33°25.45′/W079°07.60′
VPUMO		N35°35.63′/W075°28.08′
VPWZO		N36°00.87′/W075°40.07′
VPZIE		N32°01.62′/W080°53.42′

CHICAGO SECTIONAL CHART

CHICAGO SECTIONAL CHART				
WAYPOINT IDENT VPCOH	COLLOCATED VFR CHECKPOINT	LOCATION N31°49.35′/W081°51.07′		
DENVER TERMINAL AREA CHART/FLYWAY CHART				
VPBEN		N39°44.28′/W104°26.00′		
VPFTG		N39°44.35′/W104°32.75′		
VPNIC	NORTH INTERCHANGE	N39°58.90′/W104°59.27′		
	HOUSTON TERMINAL AREA CHART/FL	YWAY CHART		
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION		
VPBWY		N29°46.25′/W095°09.24′		
VPDTN		N29°46.59′/W095°22.01′		
VPGLA		N30°08.32′/W095°06.62′		
VPGLB		N30°07.80′/W094°55.70′		
VPKTY		N29°47.05′/W095°44.92′		
VPPLN		N30°08.80′/W095°50.42′		
VPRSN		N29°30.00′/W095°41.00′		
VPSND		N29°23.13′/W095°28.86′		
VPSNT		N29°49.29′/W094°53.94′		
VPTNE		N29°47.48′/W095°03.34′		
VPTNW		N29°47.06′/W095°33.81′		
VPTRK		N29°24.06′/W095°10.44′		
	JACKSONVILLE SECTIONAL C	HART		
VPAFI		N31°49.35′/W081°51.07′		
VPAFY		N30°07.00′/W081°21.33′		
VPBEC		N29°46.25′/W081°15.10′		
VPCJA		N29°30.00′/W081°06.00′		
VPCKY		N28°46.50′/W082°34.00′		
VPCNY		N28°30.00′/W080°45.00′		
VPDAD	DADE CITY	N28°22.57′/W082°11.25′		
VPDAR		N31°22.38′/W081°24.13′		
VPDFI		N29°00.17′/W081°20.85′		
VPDUT		N27°37.70′/W082°09.10′		
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′		
VPEGV		N29°39.97′/W081°24.87′		
VPFFU		N28°57.08′/W081°00.33′		
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′		
VPHAA	01 1 E1E BENON	N30°04.02′/W083°40.02′		
VPHUC		N28°19.87′/W082°43.77′		
VPIWA	MIDWAY	N31°48.33′/W081°25.85′		
VPJMY		N29°26.92′/W081°18.27′		
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′		
VPLEV		N28°48.00′/W080°52.00′		
VPLJA		N29°00.00′/W080°51.00′		
VPMAI		N30°50.02′/W084°56.63′		
VPTLH		N30°32.70′/W083°52.22′		
VPXZY		N29°35.00′/W083°10.00′		
VPYIW		N30°42.28′/W081°27.25′		
VPZIE		N32°01.62′/W080°53.42′		
KANSAS CITY SECTIONAL CHART				
VPAGO		N37°50.33′/W090°29.03′		
VPBEK		N37°15.07′/W092°30.67′		
VPDEN		N37°46.75′/W092°19.20′		
VPENE		N37°44.75′/W091°55.78′		
VPESS		N36°59.48′/W091°00.88′		
VPFME		N37°41.00′/W092°38.33′		
VPGXY		N37°15.50′/W091°40.17′		
VPMBE		N37°11.08′/W090°27.92′		
VPMKE		N37°11.08′/W090°27.92 N37°24.47′/W092°40.00′		
VPROV		N38°01.72′/W091°12.81′		
VPUTT		N37°52.05′/W092°01.20′		
*1 011		1437 32.03 / 44032 01.20		

474 VFR WAYPOINTS

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION N37°18.03′/W092°18.63′
VPWRO		N37°18.03 /W092°18.63 N37°39.12′/W091°45.68′
VPXIZ		N37°26.60′/W092°05.42′
	KANSAS CITY TERMINAL ARE	EA CHART
VPATN	ATCHISON	N39°33.62′/W095°07.65′
VPBGS	BLUE SPRINGS	N39°01.82′/W094°16.32′
VPBSP	BONNER SPRINGS	N39°03.78′/W094°53.10′
VPCHB	CHOUTEAU BRIDGE	N39°08.77′/W094°32.03′
VPDSO	DE SOTO	N38°58.68′/W094°58.48′
VPESG	EXCELSIOR SPRINGS	N39°20.68′/W094°13.77′
VPGTB	GARRETSBURG	N39°40.92′/W094°41.45′
VPLAT	LATHROP WATER TANK	N39°32.87′/W094°20.00′
VPLEN	LENEXA	N38°57.77′/W094°43.68′
VPLVL	LONGVIEW LAKE	N38°54.63′/W094°28.28′
VPMCL	MC LOUTH	N39°11.65′/W095°12.50′
VPNHA	NASHUA	N39°17.83′/W094°34.80′
VPSCX	SPORTS COMPLEX	N39°03.00′/W094°29.02′
VPSKR	SUGAR CREEK REFINERY	N39°07.00′/W094°27.02′
VPSPK	SWOPE PARK	N39°00.47′/W094°31.93′
VPTSK	TWIN STACKS	N39°09.05′/W094°38.22′
VPWOF	WORLDS OF FUN	N39°10.42′/W094°29.12′
********	KLAMATH FALLS SECTIONAL	
VPORO	KLAMAIN FALLS SECTIONAL	N43°57.38′/W123°02.22′
VFORO		•
	LOS ANGELES HELICOPTER	CHARI
VPANA		N33°44.43′/W117°50.03′
VPART	MAGNOLIA	N33°51.45′/W117°58.92′
VPAUT	HWY 91 & 55	N33°50.63′/W117°49.57′
VPBOB		N33°59.60′/W117°21.45′
VPCAR		N33°49.90′/W118°17.23′
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCOR		N33°52.90′/W117°32.95′
VPCRX		N34°01.40′/W117°44.88′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPDOW		N33°56.47′/W118°05.80′
VPELA		N34°00.98′/W118°10.35′
VPETY		N33°38.70′/W117°44.12′
VPFCB		N34°02.03′/W118°01.63′
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPGOL		N34°09.33′/W118°17.37′
VPIMP		N33°55.85′/W118°16.85′
VPKAT		N33°48.23′/W117°54.22′
VPKEL		N34°03.92′/W117°48.40′
VPLAC		N34°03.75′/W118°14.93′
VPLLU		N34°03.85′/W117°17.82′
VPLQM	QUEEN MARY	N33°45.17′/W118°11.37′
VPLRT	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′
VPMDR		N33°59.27′/W118°23.97′
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′
VPNUY		N34°09.63′/W118°28.18′
VPPCH		N33°28.07′/W117°40.32′
VPPKC		N34°03.32′/W118°12.83′
VPPOR		N34°00.10′/W117°50.12′
VPRRT		N33°59.37′/W118°16.83′
VPSEP		N34°05.80′/W118°28.63′
VPSFR		N34°17.45′/W118°28.07′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′
VPSTK		N34°13.97′/W118°24.60′

LOS ANGELES SECTIONAL CHART			
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION	
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′	
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′	
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′	
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′	
	LOS ANGELES TERMINAL AREA CHART.	/FLYWAY CHART	
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′	
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′	
VPGTY	GETTY CENTER	N34°04.84′/W118°28.66′	
VPLBP	BANNING PASS	N33°56.05′/W116°59.63′	
VPLCC	CHAFFEY COLLEGE	N34°08.87′/W117°34.33′	
VPLCP	CAJON PASS	N34°18.07′/W117°27.68′	
VPLDL	DISNEYLAND	N33°48.72′/W117°55.13′	
VPLDP	DANA POINT	N33°27.62′/W117°42.87′	
VPLDS	DODGER STADIUM	N34°04.42′/W118°14.42′	
VPLFX	91/605 INTERCHANGE	N33°52.38′/W118°06.08′	
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10′/W118°18.02′	
VPLHF	110/405 FWYS	N33°51.42′/W118°17.10′	
VPLHP	HUNTINGTON PIER	N33°39.32′/W118°00.25′	
VPLKH	KING HARBOR	N33°50.75′/W118°23.88′	
VPLLC	L.A. COLISEUM	N34°00.83′/W118°17.27′	
VPLLM	LAKE MATHEWS	N33°50.58′/W117°26.85′	
VPLMM	MAGIC MOUNTAIN	N34°26.20′/W118°36.28′	
VPLMS	MILE SQUARE PARK	N33°43.40′/W117°56.77′	
VPLPD	PRADO DAM	N33°53.40′/W117°38.48′	
VPLPP	PACIFIC PALISADES	N34°02.13′/W118°32.15′	
VPLQM	QUEEN MARY	N33°45.17′/W118°11.37′	
VPLRB	ROSE BOWL	N34°09.67′/W118°10.05′	
VPLRT	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′	
VPLSA	SANTA ANA CANYON	N33°52.03′/W117°42.68′	
VPLSB	SANTA FE FLOOD BASIN	N34°07.72′/W117°57.30′	
VPLSC VPLSF	STATE COLLEGE SAN FERNANDO RESERVOIR	N33°52.97′/W117°53.13′	
VPLSP	SIGNAL PEAK	N34°17.87′/W118°29.00′ N33°36.33′/W117°48.63′	
VPLSP VPLSR	HAWTHORNE & 405 FREEWAY	•	
VPLSS	SANTA SUSANA PASS	N33°53.07′/W118°21.13′ N34°16.00′/W118°38.43′	
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40′/W118°38.43°	
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′	
VPLWT	WATER TANK	N34°10.82′/W118°46.27′	
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′	
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′	
	MIAMI SECTIONAL CHAP	•	
VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′	
VPBOV	HOLETWOOD BEACH	N27°57.00′/W080°46.75′	
VPCLE		N26°27.07′/W082°00.88′	
VPCTE		N26°09.28′/W081°20.70′	
VPDAD	DADE CITY	N28°22.57′/W082°11.25′	
VPDUT	5.02 0111	N27°37.70′/W082°09.10′	
VPDZE		N27°19.00′/W080°44.17′	
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′	
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′	
VPFAH	<u> </u>	N26°25.40′/W081°29.67′	
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′	
VPHRO		N27°05.97′/W082°12.20′	
VPHUC		N28°19.87′/W082°43.77′	
VPIBR		N27°12.47′/W081°40.22′	
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′	
VPKOE		N24°40.08′/W081°20.55′	
VDLVV		NO 4940 07/ /MO90940 47/	

GULFSTREAM PARK

PUMPING STATION

RANGER STATION

N24°49.07'/W080°49.17'

N25°58.57′/W080°08.17′

N26°28.30'/W080°26.75'

N25°50.67'/W080°55.18'

N25°22.92′/W080°36.58′

N27°03.00′/W080°35.00′

VPLYY

VPMBO

VPOBA

VPRBI

VPRNL

VPWMO

MIAMI TERMINAL AREA CHART/FLYWAY CHART

IV	IIAMII IERMINAE ANEA GIIANI/IEIWAI G	HAINT
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′
VPMBO	GULFSTREAM PARK	N25°58.57′W080°08.17′
VPOBA	PUMPING STATION	N26°28.30′/W080°26.75′
VPRBI		N25°50.67′/W080°55.18′
VPRNL	RANGER STATION	N25°22.92'/W080°36.58'
	NEW ORLEANS SECTIONAL CHART	
VPGPT		N30°25.95′/W089°05.62′
VPLIP	PHILLIPS INLET	N30°16.23′/W085°59.25′
	PHILLIPS INLEI	
VPMAI		N30°50.02′/W084°56.63′
VPMOB		N30°23.00′/W088°31.72′
VPRAM		N30°18.95′/W089°35.88′
VPRER		N30°13.87'/W085°20.67'
VPRIV		N30°54.85′/W087°57.82′
VPSAW		N30°49.65′/W089°07.42′
VPTHR		N30°19.93′/W087°08.50′
VIIII		N30 13.33 / W007 00.30
	NEW YORK HELICOPTER CHART	
VPJAY		N40°59.00′/W073°07.00′
VPLYD		N40°57.37′/W073°29.59′
VPROK		N40°52.70′/W073°44.24′
PH	OENIX TERMINAL AREA CHART/FLYWAY	CHART
VPALL	ALLENVILLE	N33°20.97′/W112°35.20′
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05′/W112°41.38′
VPARM	ARROWHEAD MALL	N33°38.52′/W112°13.48′
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98′/W111°59.08′
VPAZM	ARIZONA MILLS	N33°23.43′/W111°57.88′
VPBAR	BARTLETT DAM	N33°49.10′/W111°37.92′
VPCCC	COUNTRY CLUB & CANAL	N33°30.73′/W111°50.37′
VPCNL	CANAL	N33°33.23′/W111°46.89°
VPFRB	FIREBIRD LAKE	N33°16.35′/W111°58.10′
VPFTN	FOUNTAIN HILLS	N33°36.12′/W111°42.72′
VPGLX	GILA CROSSING	N33°16.55′/W112°10.08′
VPGPP	GLENDALE POWER PLANT	N33°33.27′/W112°13.00′
VPMAR	MARICOPA	N33°03.42′/W112°02.88′
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53′/W111°49.58′
VPNRV	NEW RIVER	N33°55.08'/W112°08.45'
VPNTT	NORTH TEST TRACK	N33°03.50′/W111°55.83′
VPPIR	PIR	N33°22.52′/W112°18.90′
VPOTR	QUINTERO GOLF COURSE	N33°49.53′/W112°23.58′
VPRVC	RIO VERDE COMMUNITY	N33°44.37′/W111°39.62′
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02′/W112°02.12′
VPSQP	SQUAW PEAK	N33°32.83′/W112°01.27′
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50′/W111°41.37′
VPSTN	SANTAN MOUNTAINS	N33°09.23'/W111°40.92'
VPSTT	SOUTH TEST TRACK	N32°56.25'/W111°59.67'
VPZZZ		N33°20.18′/W111°26.53′
ет	LOUIS TERMINAL AREA CHART/FLYWAY	СПУДТ
VPAGN	TV ANTENNA	N38°32.08′/W090°22.42′
VPBPE		N38°23.80′/W090°20.38′
VPCJY	HOLIDAY SHORES	N38°55.00′/W089°56.00′
VPCOJ	WINFIELD DAM	N39°00.28′/W090°41.23′
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18′/W090°16.47′
VPEAZ	BUSCH STADIUM	N38°37.43′/W090°11.55′
VPEDZ	WATER TANKS	N38°45.30′/W090°34.87′
VPEGR	GAS TANKS	N38°35.80′/W090°19.32′
VPEOX	ST PETERS	N38°47.17′/W090°39.25′
VI LOX	JI I EILING	NOO 41.11 / WOOO 39.23

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00′/W090°43.00′
VPFFY		N38°55.37′/W090°17.30′
VPGPF		N38°35.60′/W090°26.92′
VPGVI		N38°32.30′/W090°27.80′
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88′/W090°10.42′
VPIBO	WATERLOO	N38°20.00′/W090°09.00′
VPJMU	HORSESHOE LAKE	N38°41.00′/W090°05.00′
VPKNY	PACIFIC	N38°29.00′/W090°44.00′
VPLES	ST CHARLES	N38°47.00′/W090°30.00′
VPLIW	SIX FLAGS	N38°30.67'/W090°40.47'
VPLXU	GATEWAY ARCH	N38°37.50′/W090°11.00′
VPNSY	WOOD RIVER REFINERIES	N38°50.00′/W090°05.00′
VPNZY	WENTZVILLE	N38°48.83'/W090°50.98'
VPRAZ	JERSEYVILLE	N39°07.00′/W090°20.00′
VPRMO	FOREST PARK	N38°38.00′/W090°17.00′
VPWKO	COLUMBIA	N38°27.00′/W090°12.00′
VPXXI	MILLSTADT	N38°27.50′/W090°05.68′
VPYID	MOSENTHEIN ISLAND	N38°43.00′/W090°12.25′

SALT LAKE CITY HELICOPTER CHART

ONE! EINE OFF HEEFOOF FER OFFICE			
VPAIR	SALTAIR	N40°44.85′/W112°11.22′	
VPBEE	SOUTH INTERCHANGE	N40°38.18′/W111°54.23′	
VPBRN	BARN	N40°54.28′/W112°10.15′	
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′	
VPCHS		N40°42.28′/W112°05.92′	
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′	
VPCWY	CAUSEWAY	N41°05.37′/W112°07.17′	
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′	
VPFPC	FREE PORT CENTER	N41°05.92′/W112°02.27′	
VPFPK	FRANCIS PEAK	N41°01.98′/W111°50.30′	
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′	
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′	
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′	
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′	
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08′/W111°53.57′	
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′	
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′	
VPMSH		N41°01.67′/W112°02.47′	
VPNSL		N40°50.15′/W111°54.90′	
VPNTP		N41°03.57′/W112°14.23′	
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′	
VPOPS	POWER STATION	N41°20.38′/W112°02.78′	
VPPEN	STATE PRISON	N40°29.88′/W111°53.62′	
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′	
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′	
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′	
VPRWY		N40°48.48′/W112°00.33′	
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′	
VPTIP	SOUTH TIP	N40°50.93′/W112°10.92′	
VPWBR	WEBER CANYON	N41°08.17′/W111°54.83′	
VPWBT		N40°38.00′/W112°03.33′	

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VPAIR	SALTAIR	N40°44.85′/W112°11.22′
VPBEE	SOUTH INTERCHANGE	N40°38.18′/W111°54.23′
VPBRN	BARN	N40°54.28′/W112°10.15′
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPCHS		N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPCVI	CENTERVILLE INTERCHANGE	N40°55.30′/W111°53.43′
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPFPC	FREE PORT CENTER	N41°05.92′/W112°02.27′
VPFPK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08′/W111°53.57′
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67′/W112°02.47′
VPNSL		N40°50.15′/W111°54.90′
VPNTP		N41°03.57′/W112°14.23′
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38′/W112°02.78′
VPPEN	STATE PRISON	N40°29.88′/W111°53.62′
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48′/W112°00.33′
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′
VPTIP	SOUTH TIP	N40°50.93′/W112°10.92′
VPUOU	U OF U EVENTS CENTER	N40°45.73′/W111°50.28′
VPWBR	WEBER CANYON	N41°08.17′/W111°54.83′
VPWBT		N40°38.00′/W112°03.33′
VPZ00	HOGLE ZOO	N40°45.00′/W111°48.95′

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N22027 CQ/ (N/4 4 70 4 2 0 7 /
VPLDP		N33°27.62′/W117°42.87′
	SIGNAL PEAK	N33°36.33′/W117°48.63′
VPOCN	DADONA GAGINO	N33°14.15′/W117°26.63′
VPSBC	BARONA CASINO	N32°56.25′/W116°52.60′
VPSBL		N33°05.18′/W117°18.55′
VPSBM	BLACK MOUNTAIN	N32°58.87′/W117°07.00′
VPSCF		N32°48.55′/W117°09.17′
VPSCM	COWLES MOUNTAIN	N32°48.72′/W117°01.97′
VPSCP	CRYSTAL PIER	N32°47.77′/W117°15.42′
VPSCR		N32°39.37′/W117°07.30′
VPSFB	IRON MOUNTAIN	N32°58.25′/W116°57.33′
VPSLJ	LAKE JENNINGS	N32°51.53′/W116°53.28′
VPSMB		N32°45.57′/W117°12.22′
VPSMP		N33°22.70′/W117°36.75′
VPSMS	MOUNT SOLEDAD	N32°50.40′/W117°15.10′
VPSMV		N32°45.75′/W117°09.80′
VPSMW	MOUNT WOODSON	N33°00.52′/W116°58.23′
VPSOP	OTAY MESA PRISON	N32°35.82′/W116°55.28′
VPSOT	LOWER OTAY LAKE	N32°37.73′/W116°55.38′
VPSPL	SOUTH POINT LOMA	N32°39.90′/W117°14.55′
VPSPP	POWER PLANT	N33°08.25′/W117°20.23′
VPSOS	OUALCOMM STADIUM	N32°46.98′/W117°07.23′
VPSRT	DEL MAR RACE TRACK	N32°58.58′/W117°15.95′
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78′/W116°56.18′
VPSSV	SAN VICENTE ISLAND	N32°55.53′/W116°55.00′
VPSTP	TORREY PINES GOLF COURSE	N32°54.17′/W117°14.68′
VPSVA	. S	N33°11.48′/W117°16.38′
		1100 11.40 / 11111 10.00

SAN FRANCISCO SECTIONAL CHART

VPKBG KINGSBURY GRADE N38°58.75′/W119°53.20′

SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35′/W121°35.42′
VPANT	ANTIOCH BRIDGE	N38°01.45′/W121°45.02′
VPBBR	BENICIA BRIDGE	N38°02.50′/W122°07.45′
VPCAL	CALAVERAS RESERVOIR	N37°28.16′/W121°48.93′
VPCBT	LAKE CHABOT	N37°43.68′/W122°06.94′
VPCOY	COYOTE HILLS	N37°32.50′/W122°05.06′
VPCQZ	CARQUINEZ BRIDGE	N38°03.66′/W122°13.52′
VPCRL		N37°11.00′/W121°41.06′
VPCRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56′/W122°21.10′

SE, 22 OCT 2009 to 17 DEC 2009

VFR WAYPOINTS

	VIII WAIT UINIS	
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCSH	CAL STATE UNIVERSITY	N37°39.52′/W122°03.52′
VPDAM	DEL VALLE DAM	N37°36.91′/W121°44.78′
VPDLR		N37°07.00′/W121°47.06′
VPDUB	DUBLIN	N37°42.06′/W121°55.36′
VPEMB	EMBASSY SUITES	N37°26.05′/W121°53.83′
VPGGF	GOLDEN GATE FIELDS	N37°53.07′/W122°18.71′
VPGIL	GILROY	N37°01.37′/W121°33.99′
VPHHH	HAMILTON	N38°03.58′/W122°30.66′
VPKG0	KGO	N37°31.58′/W122°06.10′
VPLEX	LEXINGTON RESERVOIR	N37°11.66′/W121°59.18′
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28′/W122°11.81′
VPMOR	MORMON TEMPLE	N37°48.46′/W122°11.95′
VPNUM	NUMMI PLANT	N37°29.56′/W121°56.58′
VPPAC		N37°38.00′/W122°32.07′
VPPRU	PRUNEYARD	N37°17.33′/W121°56.01′
VPSAR	SARATOGA	N37°15.26′/W122°02.33′
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75′/W122°14.35′
VPSTB	STINSON BEACH	N37°54.45′/W122°40.41′
VPSUN	SUNOL GOLF COURSE	N37°34.85′/W121°53.23′
VPUTC	U.T.C.	N37°13.93′/W121°41.35′
VPWAL	WALNUT CREEK	N37°53.78′/W122°04.30′
VPWAM		N37°30.28′/W122°10.00′
VPWFR	CEMENT PLANT	N37°30.88′/W122°12.26′
	TAMPA/ORLANDO TERMINAL AREA CHAR	RT/FLYWAY CHART
VPBOV		N27°57.00′/W080°46.75′
VPCNY		N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDFI		N29°00.17'/W081°20.85'
VPDUT		N27°37.70′/W082°09.10′

VPBOV		N27°57.00′/W080°46.75′
VPCNY		N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDFI		N29°00.17′/W081°20.85′
VPDUT		N27°37.70′/W082°09.10′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPFFU		N28°57.08′/W081°00.33′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHUC		N28°19.87′/W082°43.77′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPLEV		N28°48.00′/W080°52.00′
VPLJA		N29°00.00′/W080°51.00′

WASHINGTON SECTIONAL CHART

VPACE	 N38°07.82′/W076°48.75′
VPAXI	 N38°34.57′/W076°20.38′
VPBRA	 N36°13.75′/W076°08.08′
VPGCE	 N36°03.90′/W076°36.42′
VPWZO	 N36°00.87′/W075°40.07′

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VOR RECEIVER CHECK

VOR RECEIVER CHECKPOINTS AND **VOR TEST FACILITIES (VOT)**

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual. Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300 or 1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

ALABAMA VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Brookley (Mobile Downtown)	112.8/BFM	G	313	1.68	On runup area for rwy 14. VOR grand receiver checkpoint OTS indef.
Cairns AAF (Fort Rucker)	111.2/0ZR	G	066	1.0	On runup pad Twy F.
Enterprise Muni	116.6/EDN	A/2000	341	7.4	Red/white twr.
Monroeville (Monroe Co Arpt)	116.8/MVC	G	196	0.6	Rwy 03 runup area/turnaround pad.
Montgomery (Montgomery Rgnl/					, , ,
Dannelly Field)	112.1/MGM	G	318	6.2	On Twy C north of Twy A.
Northwest Alabama Rgnl	116.5/MSL	G	289	5.6	On taxiway adjacent to approach end Rwy 29.
Talladega Muni	108.8/TDG	A/2000	084	9.0	Over center of segmented circle.
Crimson (Tuscaloosa Rgnl)	117.8/LDK	G	238	4.2	On centerline of Twy midway between ramp and rwy.

VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name) Fre		Facility	Remarks
Birmingham-Shuttlesworth Intl	110.0	G	

Huntsville Intl-Carl T Jones Fld 111.0

FLORIDA VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Cypress (Naples Muni)	108.6/CYY	G	121	0.6	On runup area Rwy 32.
Crestview (Bob Sikes)	115.9/CEW	A/1200	106	8.6	Over rotating bcn.
Lakeland Linder Rgnl	116.0/LAL	G	038	0.5	On NE end of Twy C.
	116.0/LAL	G	283	1.1	On Twy A-1.
Melbourne Intl	110.0/MLB	G	184	0.6	SW corner of arpt at intersection of Twy C and D.
Ocala Intl-Jim Taylor Fld	113.7/OCF	G	167	1.0	On taxiway E adjacent to E9.
Orlando (Executive)	112.2/ORL	G	324	.5	On Twy E near AER 13.
		G	311	.5	On Twy H near AER 13.
Pahokee (Palm Beach Co Glades)	115.4/PHK	A/1500	022	13	Over radio twr at intersection of 2 canals.
Panama City-Bay Co Intl	114.3/PFN	G	190	0.5	Main terminal ramp.

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
		G	154	0.6	Rwy 32 run-up/Twy G.
		G	208	0.6	Rwy 5 run-up/Twy D.
St. Petersburg-Clearwater Intl	116.4/PIE	G	046	0.4	On circle located NE end of Twy M.
Vero Beach Muni	117.3/VRB	G	111	4.4	Runup area Rwy 29R.
		G	114	4	Compass rose on taxiway E.
		G	116	3.6	Runup area Rwy 11R.
Ve	OR TEST FA	ACILITIES	(VOT)		
Facility Name		Type VOT			
(Airport Name)	Freq.	Facility			Remarks

(Airport Name)	Freq.	Facility
Daytona Beach Intl Jacksonville Intl Miami Intl Palm Beach Intl Tallahassee Rgnl Tampa Intl	111.0 111.0 112.0 109.0 111.0	G G G G

Unuseable E of Twy F.

GEORGIA VOR RECEIVER CHECKPOINTS

		Type Check Pt. Gnd.	Azimuth from Fac.	Dist. from Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Athens (Madison Muni)	109.6/AHN 109.6/AHN 116.6/PDK	A/2000 G G	199 284 004	21 .5 0.5	Over center of rwy. Runup area Rwy 09. On runup area Rwy 20L. VOR ground checkpoint unavailable.
		G	218	0.5	On runup area Rwys 02L and 02R.
Brunswick (Malcolm McKinnon)	109.8/SSI	A/1050	029	7.2	Over rotating bcn.
Columbus Metropolitan	117.1/CSG	G	146	7.1	FBO ramp in front of ASOS equipment.
Dublin (W H 'Bud' Barron)	113.1/DBN	G	270	7.6	Ramp.
Foothills (Toccoa RG Letourneau Fld)	113.4/ODF	A/2000	179	6	Over rotating bcn.
Hunter	111.6/SVN	A/1500	090	15.5	Over lighthouse.
Hunter AAF	111.6/SVN	G	271	1.2	On Twy 6.
Lawson AAF	111.4/LSF	G	356	.6	On painted circle at taxiway intersection 580' NW of twr.
Macon	114.2/MCN	A/2000	028	13.6	Over oil tank.
		A/2000	320	9.5	Over dam.
Pecan (Southwest Georgia Rgnl)	116.1/PZD	A/1000	145	9	Over rotating bcn E side of arpt.
Rome (Richard B Russel)	115.4/RMG	G	348	11.5	At intersection of twy 200' S of terminal building. VOR ground checkpoint unavailable.
Savannah	112.7/SAV	A/1500	097	19.6	Over red and white lighthouse.
Valdosta Rgnl	114.8/OTK	G	131	0.6	On taxiway at apch end rwy 35.
Vienna (Crisp County-Cordele)	116.5/VNA 110.2/AYS	A/1300 A/1200	226 099	19 8	Over center of NE/SW rwy. Over fire twr W side arpt.

VOR RECEIVER CHECK VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks
Atlanta (Hartsfield-Jackson Atlanta Intl)	111.0	G	
(Atlanta Muni)	111.0	G	VOT OTS indef.
Brunswick Golden Isles	111.0	G	
Cayannah /Hilton Hoad Intl	111 0	C	

KENTUCKY

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Central City (Muhlenberg Co)	109.8/CCT	A/2500	153	10.6	Over intersection of Rwy 23 and central taxiway.
Clarksville (Campbell AAF)	110.6/CKV	G	307	4.9	On taxiway 6 center romeo helipad.
Clarksville (Hopkinsville–Christian Co) Fort Knox (Godman AAF)	110.6/CKV 109.6/FTK	A/2000 A/2000	345 270	13.5 9.2	Over hangar. W of Godman AAF over a
Frankfort (Capital City)	109.4/FFT	G	082	.7	298 ft twr. Runup pad Rwy 24.
Fld)	116.1/LOZ	G	033	3.8	On parking ramp taxiway entry.
Owensboro-Daviess Co	108.6/OWB	G	176	.7	On taxiway at apch end Rwy 36.

VOR TEST FACILITIES (VOT)

	Type VOT			
Freq.	Facility	Remarks		
111 0	G			
	Freq.	Freq. Facility		

VOR RECEIVER CHECK NORTH CAROLINA

VOR RECEIVER CHECKPOINTS

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Barretts Mountain (Hickory Rgnl)	110.8/BZM	A/2200	229	10.2	Over apch end Rwy 24.
Cofield (Tri-Co)	114.6/CVI	A/4500	259	15.3	Distance 20/25.
Fayetteville Rgnl/Grannis Fld	108.8/FAY	G	278	0.6	On runup area Rwy 04.
Greensboro (Lexington Muni)	116.2/GS0	A/2300	228	22	Over rotating bcn atop W end of building.
Greensboro (Piedmont Triad Intl)	116.2/GS0	G	036	3.5	On Twy M3. Checkpoint OTS indef.
Greensboro (Smith Reynolds)	116.2/GS0	A/2000	297	13.5	Over atct.
Kinston Rgnl Jetport At Stallings Fld	109.6/ISO	G	230	3.1	Twy A between A4 and A5.
Raleigh-Durham Intl	117.2/RDU	G	244	0.85	At end of taxiway to Rwy 05R.
Sugarloaf Mountain (Asheville Rgnl)	112.2/SUG	A/3200	280	13.6	Over atct. Airborne checkpoint unusable indef.
Tar River	117.8/TYI	A/1500	260	5.8	Over smoke stack at power house.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Charlotte (Charlotte/Douglas Intl) Hickory Rgnl		G G	

SOUTH CAROLINA

VOR RECEIVER CHECKPOINTS

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Charleston AFB/Intl	113.5/CHS	G	225	.7	Runup pad Rwy 03.
	113.5/CHS	G	009	.5	Runup pad Rwy 21.
	113.5/CHS	G	337	1.2	Runup pad Rwy 15.
	113.5/CHS	G	331	0.3	Runup area for Rwy 33.
Electric City (Anderson Rgnl)	108.6/ELW	G	039	5.5	On ramp in front of terminal bldg.
Grand Strand	117.6/CRE	A/1100	238	6	Over white water tank.
	117.6/CRE	G	213	0.7	On runup pad Rwy 05.
Greenwood Co	115.5/GRD	G	250	.7	End of taxiway at Rwy 09

VOR TEST FACILITIES (VOT)

Facility Name Type VO		Type VOT	TC		
(Airport Name)	Freq.	Facility	Remarks		
Charleston AFB/Intl	111.0	G			

VOR RECEIVER CHECK TENNESSEE

VOR RECEIVER CHECKPOINTS

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Hinch Mountain (Crossville Memorial-Whitson Fld)	117.6/HCH	A/2900	336	11	Over metal hangar.
	117.6/HCH	G	335	11.5	Runup area between taxiway and rwy at center of fld.
Holston Mountain (Tri–Cities Rgnl TN/VA)	114.6/HMV	G	286	13.7	On ramp S of terminal building.
Jackson (McKellar-Sipes Rgnl)	112.0/MKL		256	0.6	At south end of ramp at fire station.
Nashville (Lebanon Muni)	114.1/BNA	A/2000	082	18	Over midfield.
Tullahoma Rgnl/Wm Northern Fld		A/1800	003	5.0	Over Normandy Dam.

VOR TEST FACILITIES (VOT)

Remarks

Facility Name	Type VOT		
(Airport Name)	Freq.	Facility	
Knoxville (McGhee-Tyson)	112 0	G	
Memphis Intl		G	
Nashville Intl	108.6	G	
Smyrna	110 2	G	

PUERTO RICO

VOR RECEIVER CHECKPOINTS

		Type			
		Check Azimuth		Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Borinquen (Rafael Hernandez)	113.5/BQN	G	271	2.2	On apch end of Rwy 08.

VIRGIN ISLANDS

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Saint Thomas (Cyril E. King)	108.6/STT	G	118	3.5	On taxiway North of Main ramp. VOR gnd checkpoint unusable.

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The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations, Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Be in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
	ALABAMA		
Allen Army Heliport	11 NM; 253° Wiregrass	12,500	1 NM radius. SR-SS weekends and holidays.
(c) Bayou La Batre, Roy E.Ray Arpt	12 NM; 217° Brookley	12,500	Daily SR-SS
Bessemer, Old Bessemer Arpt	16 NM; 057° Brookwood	10,000	1030-SS weekends
(c) Cullman, Folsom Fld Arpt	36 NM; 001° Vulcan	14,500	3 NM radius. SR-SS Sat-Sun, other times by NOTAM.
(c) Dothan, Hatch Army Heliport	10.3 NM; 290° Wiregrass	12,500 AGL	1 NM SR-SS weekends and holidays.
(c) Elberta, Horak Arpt	11 NM; 268° Saufley	14,000	Daily 0700–1/2 hour after SS.
Ellis Drop Zone	15 NM; 220° Decatur	1,500	0.4 NM radius. Occasional use
Eutaw Muni Arpt	30 NM; 200° Crimson	13,000 AGL	Weekends and holidays
Gadsden, Northeast Alabama Rgnl Arpt	3 NM; 230° Gadsden	14,000	Weekends and holidays 0900-SS.
Harvest, Epps Arpk	9 NM; 297° Rocket	13,500	Daily SR-SS
(c) Hazel Green	7 NM; 355° Rocket	14,000	7 NM radius. Daily SR–SS. Occasional night use.
Headland Muni Arpt		15,000	Weekdays 1200–SS; Sat–Sun, and holidays SR–SS
Jones Drop Zone	6 NM; 276° Rocket	1,500	0.25 NM radius. Occasional use
Kilby Drop Zone	13 NM; 014° Montgomery	1,500	0.2 NM radius. Occasional use
Moundville Arpt	18 NM; 198° Tuscaloosa	12,000 AGL	5 NM radius. 0900–SS on weekends, occasionally weekdays by Notam.
Pell City, St Clair Co Arpt	10 NM; 263° Talladega	15,500	5 NM radius. SR-SS daily except Mon-Tue.
Pinson, Industrial Park	12 NM; 085° Vulcan	10,500	0800–SS Sat–Sun, occasionally weekday and ngt use.
Prattville-Grouby Fld Arpt	17 NM; 300° Montgomery	2,000	10NM radius. For specific times call 334–953–7325.
Redstone Drop Zone	9 NM; 220° Rocket	1,500	0.2 NM radius. Occasional use
Renda Drop Zone	8 NM; 234° Talledega	1,500	0.25 NM radius. Occasional use
Tac Runkle Drop Zone	19 NM; 280° Cairns	3,500 AGL	Occasional use
Tommy Drop Zone	17 NM; 235° Montgomery	1,500	0.2 NM radius. Occasional use
(c) Tuskegee, Moton Fld Muni	2 NM; 198° Tuskegee	12,500	3 NM radius. Occasionally on weekends.
Vincent	37 NM; 130° Vulcan	10,000	5 NM radius. Weekends 0900-SS.
Warrior	11 NM; 350° Vulcan	12,500	Daily SR-SS
Weaver, McMinn Arpt	15 NM; 047° Talladega	12,500	1 NM radius. Daily SR-SS, occasional night use.
(c) Wetumpka Muni	18 NM; 356° Montgomery	10,000	Daily SR-SS
	FLORIDA		
Arcadia Muni	23 NM; 311° Labelle	15,000	5 NM radius. SR–SS daily, occasional ngt use.
Avon Park Executive Arpt	30 NM; 138° Lakeland	4,000	4 NM radius. Daily SR-SS
Brandon, Sod Farm	16 NM; 255° Lakeland	15,000	0830-1830 weekends
(c) Bunnell, Flagler County Arpt	11 NM; 334° Ormond Beach	14,000	3 NM radius. SR–SS daily. Occasional nights.
Chassahowitzka Drop Zone	38 NM; 010° St. Petersburg	4,000	0.25 NM radius. Occasional use

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Clewiston, Airglades Arpt	19 NM; 097° LaBelle	13,500	1 NM radius. Daily SR-SS
(c) Coleman, Freeflight Arpt		15,000	3 NM radius. Daily SR-SS.
(c) Deland Muni-Sidney H Taylor Fld		15,000	1 NM radius. SR-SS Sat, Sun,
(1)			occasionally weekdays.
Englewood, Buchan Arpt	27 NM; 158° Sarasota	15,000 AGL	2 NM radius. Sunday 1000-SS
Florabama Drop Zone	16 NM; 216° Saufley	14,000	2 NM radius. Fri-Sun 0830-SS.
(c) Homestead General Aviation		15,000	5 NM radius. 24 hrs daily.
Jacksonville, Herlong Arpt	15 NM; 255° Craig	15,000	1 NM radius. Daily SR-SS with prior notification to JAX APP CON.
Key West		7,000	0.2 NM radius. Occasional use.
(c) La Belle, Sundance Farms Arpt (c) Lake Wales Muni	5.4 NM; 245° La Belle 21 NM; 104° Lakeland	12,500 18,000	1 NM radius. Daily SR–SS. 7 NM radius, 24 hrs daily. Miami Center 127.2
(c) MacDill AFB	11 NM: 110° St. Petersburg	10,000	0600–1100 Sun. Over Rwy 31
(c) Melanie's Arpt		13,000	3 NM radius. SR-SS Sat-Sun, holidays and other times by NOTAM.
(c) Myakka City (c) New Smyrna Beach, Massey Ranch	18 NM; 097° Sarasota	12,500	5 NM radius, 24 hrs daily
Airpark	22 NM; 150° Ormond Beach	15,000	1 NM radius SR-SS weekends,
(c) Palatka Muni–Lt. Kay Larkin Fld	36 NM; 079° Gainesville	12,500	occasionally weekdays. 3 NM radius. Daily, SR-SS
(c) Pahokee, Palm Beach Co Glades	at Pahokee	17,500	3 NM radius, 0800–1800 daily.
Arpt		45.000	B !! OB OO
(c) Quincy Muni ArptSt. Augustine		15,000 12,500	Daily SR-SS Sat-Sun occasionally weekdays
(c) Sebastian Muni		22,000	10 NM radius. Daily SR–SS.
(c) Shell Creek Airpark		13,000	1 NM radius. SR-SS weekends, holidays.
(c) Sugar Loaf Shores Arpt		14,000	2 NM radius. SR-SS.
Sun City		12,500	4 NM 12 OD OO 4-21-
(c) Titusville, Arthur Dunn Air Park (c) Umatilla Muni Arpt		13,500 13,000 AGL	NM radius, SR-SS daily. NM radius. SR-SS. Occasional night use.
Wakulla Co Arpt	35 NM; 180° Seminole	13,500	3 NM radius. SR–SS weekends occasionally weekdays. Tallahassee Rgnl Tower 135.8
(C) Williston Muni Arpt	22 NM; 210° Gators	11,000	2.5 NM radius. SR-SS Fri, Sat and Sun. Jacksonville Center 118.6
(c) Zephyrhills Muni	16 NM; 330° Lakeland	20,000	E of Rwy 18–36. Daily SR–2300
	GEORGIA		
Bunker Hill Drop Zone		8,000	1 NM radius. SR-1 hr after SS
		-,	daily, irregular intervals. Mass military jumps from multiple acft.
(c) Cedartown, Polk Co Arpt-Cornelius Moore Fld	9 NM; 188° Rome	15,000	3 NM radius. SR-SS daily, occasionally nights.
Claxton-Evans Co Arpt	33.6 NM; 276° Savannah	7,500	0900–SS Sat and Sun
(c) Dahlonega, Lumpkin County	23 NM; 193° Harris	15,000	1 NM radius. SR to 1 hr after SS
Alpt, Willipy Drop Zolle	23 NW, 193 Hallis	13,000	daily irregular intervals. Mass military jumps from multiple acft.
Dahlonega Highway 76 Drop Zone		3,000	Occasional use.
Fort Benning, Box Spring Drop Zone		3,000	Occasional use.
Fort Benning, Eelbeck Drop Zone (c) Fort Benning, EuBanks Drop Zone		3,000 12,500	Occasional use. Daily 0500–1900
(c) Fort Benning, Fryar Field Drop Zone		13,000	0.5 NM radius, Continuous.
(c) Fort Benning, Gardner Drop Zone		12,500	Daily 0500–1900
Fort Benning, Lawson AAF (Fort Benning)	1.8 NM; 046° Lawson	12,500	1 NM radius. Daily SR-SS
	21 NM; 166° Columbus	3,000	Occasional use
Fort Benning, Ledo Drop Zone		3,000	Occasional use
Fort Benning, McKenna Drop Zone		3,000	Occasional use
(c) Fort Benning, York Drop Zone Fort Valley, Miami Valley Farms Arpt		12,500	Daily 0500–1900 1 NM radius, Daily 0900–SS
Locust Grove, Mallards	12 INIVI, 220 IVIdCUII	14,000	T MINI TAUTUS, DAITY USUU-55
Landing Arpt	17.5 NM; 118° Atlanta	13,500	Sat, Sun and holidays SR–SS. Occasional ngt jumps
(c) Monroe–Walton Co Arpt		13,500	5 NM radius. Daily 0800-2100.
Plantation Airpark, Moore Drop Zone	36 NM; 332° Savannah	1,500 AGL	NM radius. Occasional use. Mass Military jumps from multiple acft.
(c) Rome, Richard B. Russell Arpt	11.3 NM; 349° Rome	15,000	5 NM radius. SR-SS Weekends.
St Marys Arpt		12,000	2 NM radius. Daily 0700-1859.

PARACHUTE JUMPING AREAS

LOCATION Thomaston-Upson Co	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC 35 NM; 296° Macon	MAXIMUM ALTITUDE 14,500	REMARKS 1 NM radius. Sat–Sun occasionally
Tifton Henry Tift Myers Arnt	1 NM; 090° Tift Myers	15,000	weekdays. 5 NM radius. Daily 0700–1800.
	8 NM; 100° Waycross	12,500	1 NM radius. Daily 1000–1800.
	14 NM; 245° Harris	8,000	1 NM radius. SR to 1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft.
	KENTUCKY		
Elizabethtown, Addington Fld	12 NM; 285° New Hope	11,000	3 NM radius, SR-SS Weekends and noon-SS weekdays.
Elkton, Standard Fld(c) Flemingsburg, Fleming Mason Arpt .	16 NM; 045° Clarksville 27 NM; 103° Falmouth	12,000 12,500	5 NM radius. Continuous. 1 NM radius. SR-SS Sat-Sun and holidays.
Ft. Campbell, Bastogne Drop Zone	8 NM; 274° Clarksville	3,000	0600–2330 Mon–Fri and occasional weekends. Military use.
Ft. Campbell, Corregidor Drop Zone	11 NM; 270° Clarksville	3,000	0600–2330 Mon–Fri and occasional weekends. Military
Ft. Campbell, Los Banos Drop Zone	10 NM; 270° Clarksville	3,000	use. 0600–2330 Mon–Fri and occasional weekends. Military
Ft. Campbell, Suckchon Drop Zone	10 NM; 270° Clarksville	3,000	use. 0600–2330 Mon–Fri and occasional weekends. Military
Glasgow Muni Arpt	24 NM; 073° Bowling Green	8,000	use. 5 mi radius. SR-SS weekends and holidays
(c) Greenville, Muhlenberg Co Arpt	10 NM; 149° Central City	13,500	5 mi. radius. Daily SR-SS.
	7 NM; 149° Central City	2,000	2 NM radius. Intermittent. Military use.
(c) Hopkinsville–Christian Co	14 NM; 352° Clarksville	14,500	3 NM radius, 0900–1600 Tue–Fri; occasional weekends.
Owensboro, Windy Hollow Drag Strip	6 NM; 205° Owensboro	8,000	2 NM radius. 0800–SS Sun, holidays occasionally other times
	NODTH CARCLINA		umes
	NORTH CAROLINA		
(c) Cherry Point, Cannon Drop Zone	9 NM; 184° Cherry Point Tacan	10,500	3 NM radius. Weekends and holidays, occasional use weekdays.
	22 NM; 030° Fayetteville	4,500	1 NM radius. Sat & Sun afternoons
(c) Fayetteville, Southern Comforts Arpt	9 NM; 220 Fayetteville	14,000	3 NM radius. Fri–Mon and holidays SR–SS.
Greensboro, Southeast Greensboro Arpt	18 NM; 115° Greensboro	12,000	1 NM radius. 0800–2000 Sat and Sun.
	8 NM; 339° Liberty	11,000	3 NM radius. 0800-1600 Fri-Sun.
	22 NM; 040° Kinston	15,500 15,000	Daily SR–SS. 3 NM radius. SR–SS daily,
(c) Julicaville, awaii of cent Alpt	27 NW, Barretts Wountain	15,000	occasional night.
	22 NM; 060° Raleigh–Durham	15,500	30 min before SR-30 min after SS daily. Occasional ngt.
	13 NM; 152° Sandhills 11 NM; 150° Sandhills	17,500 17,500	0600–1900 Daily. Continuous.
	26 NM; 250° Fayetteville	13,500	0800–1700 Mon–Fri.
	29 NM; 296° Raleigh/Durham	12,000	1 NM radius. 0900–SS Weekends; occasionally other times.
	8.75 NM; 143° Sandhills	12,500	Sat, Sun and holidays. Weekdays on request.
	17 NM; 280° Fayetteville	12,500 AGL	Continuous.
(C) KOCKY MOUNT	9.5 NM; 285° Tar River 27.2 NM; 209° Wilmington	12,500	Sat, Sun and holidays 0900–SS.
Thomasville. Fairgrove Arnt	13 NM; 201° Greensboro	12,000 14,000	3 NM radius. 0800–2100 daily. Weekends and holidays.
	23 NM; 351° Wilmington	15,000 AGL	3 NM radius. Sat–Sun SR–SS.
	27.6 NM; 069° Kinston	14,999 AGL	2 NM radius. SR-SS daily, occasional night use.
	SOUTH CAROLINA		
(c) Rarnwell Ronl Arnt	15 NM; 343° Allendale	12,500	Daily SR-SS.
	38.25 NM; 067° Savannah	10,000	1.0 NM radius. Sat, Sun and holidays SR–SS.
	16.5 NM; 223° Fort Mill	13,500 AGL	1 NM radius. Daily 0800-SS.
	14 NM; 343° Electric City	12,000	Daily SR-SS.
COMMINIA, FUIL JACKSUM	10 NM; 020° Columbia	10,000	1 NM radius. Weekends, occasional weekdays.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Green Sea Arpt	25 NM; 330° Grand Strand	15,000	3 NM radius. Weekends and occasional weekdays SR-SS.
(c) Loris, Twin City Arpt(c) North AF Aux Arpt	15 NM; 340° Grand Strand 15 NM; 186° Columbia	12,000 2,000	Weekends, holidays 0800–SS. ½ NM radius. Mon–Fri 0800–2200. Military personnel and heavy equipment.
St George Arpt Timmonsville, Huggins Arpt (c) Walterboro, Lowcountry Rgnl Arpt	17 NM; 192° Vance	17,900 12,500 12,500 AGL	SR-1 hr after SS. Daily SR-SS. Weekends.
(o) Nationality, Lawrence in Figure 11.	TENNESSEE	12,000 //42	Weekends.
Campbell Co.	28.9 NM: 336° Volunteer	13.500	2 NM radius. 0800-one hr byd SS.
Chattanooga	13 NM; 087° Choo Choo	10,000	Continuous.
Clarksville, Outlaw Fld	Over Clarksville	14,000 AGL	4 NM radius. Daily SR-SS, occasional ngts.
Crossville Meml-Whitson Fld	11.5 NM; 335° Hitch Mountain	14,500	1 NM radius. Daily SR-1 hr after SS, occasional nights.
(c) Dunlap	30 NM; 335° Choo Choo	9,000	5 NM radius. SR-SS Daily.
Fort Campbell, Son Drop Zone	4.1 NM; 302° Clarksville	12,500	Daily.
Livingston Arpt	13 NM; 212° Livingston	12,500	Weekends.
(c) Paris, Henry Co	44.3 NM; 357° Jacks Creek	13,500	5 NM radius. Daily SR-SS.
Sevierville, Seymour Airpark	10 NM; 133° Volunteer	13,500	3 NM radius. Weekends SR-SS.
(c) Somerville, Wings	26 NM; 210° McKellar	14,000 AGL	2 NM radius. Weekends 0700–SS. Occasional ngt jumps.
Tullahoma Rgnl Arpt/WM Northern Fld	14.1 NM; 139° Shelbyville	15,000	5 NM radius. SR-SS primarily weekends with occasional nights.
Whifferdill	25 NM; 303° Nashville	11,500	2 NM radius. Weekends SR-SS.
	PUERTO RICO		
(c) Arecibo, Antonio/Nery/Juarbe Pol Arpt.	25 NM; 105° Borinquen	12,500	0600-1800 weekends & holidays.
(c) Humacao Arpt	20.9 NM; 159° San Juan	15,000	2.5 NM radius. Weekends SR-SS, occasionally holiday SR-SS.
	VIRGIN ISLANDS		
St. Croix, Ordinance Drop Zone		2,000	0700–1400 Mon–Fri. 5 NM radius from 17°49'N 064°52'W.
St. Thomas, Cyril E. King No. 1	6.5 NM; 118° St. Thomas	15,000	
St. Thomas, Cyril E. King No. 2	10.4 NM; 110° St. Thomas	15,000	

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

ATLANTA SECTIONAL 83rd Edition. 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 No Major Changes.

22 Oct 2009 Add obst 1327 MSL (310 AGL)UC, 34°21'17"N, 87°41'54"W.

Add obst 1114'MSL (346'AGL)UC, 34°37'03"N, 82°05'12"W. Add obst 1629'MSL (285'AGL)UC, 36°04'48"N, 84°31'00"W.

Add obst 879'MSL (296'AGL)UC, 32°54'16"N, 86°30'27"W. Add obst 1183'MSL (227'AGL)UC, 35°04'04"N, 86°30'50"W.

Add obst 569'MSL (285'AGL)UC, 33°52'09"N, 81°07'44"W.

AIRPORTS

27 Aug 2009 No Major Changes.

22 Oct 2009 Delete POWELL arpt. 36°02'40"N, 084°00'16"W, Change CTAF 122.9 to 122.8 at ROBBINS arpt, 33°58′16″N, 86°22′49″W.

NAVAIDS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

ATLANTA TERMINAL AREA CHART 80th Edition. 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MISCELLANEOUS

CG-21 WORLD AERONAUTICAL CHART 40th Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 Add obst 1348'MSL (600'AGL), 34°15'06"N, 84°59'12"W. Change obst from 312'MSL to 1312'MSL, 33°35'33"N, 083°58'31"W.

22 Oct 2009 Change elevation from 191' to 1911' at Blairsville arpt, 34°51'16"N, 083°59'50"W. Change runway orientation to 01/19 at Halifax-Northhampton Co Rgnl arpt. 36°19'47"N, 077°38'07"W.

NAVAIDS

22 Oct 2009 No Major Changes.

AIRSPACE

22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 No Major Changes.

CHARLOTTE SECTIONAL 86th Edition, 30 Jul 2009

OBSTRUCTIONS

27 Aug 2009 Add obst 727'MSL (310'AGL)UC, 35°00'34"N, 79°46'48"W.

Add obst 537'MSL (310'AGL)UC, 34°02'15"N, 80°24'40"W.

Add obst 268'MSL (263'AGL)UC, 35°47'45"N, 75°33'02"W

Add obst 1335'MSL (575'AGL)UC, 35°12'56"N, 81°45'44"W. Add obst 404'MSL (300'AGL)UC, 34°11'08"N, 78°57'51"W.

22 Oct 2009 Add obst 768'MSL (499'AGL)UC, 34°59'54"N, 79°15'46"W.

Add obst 656'MSL (290'AGL)UC, 35°51'14"N, 80°00'55"N, Add obst 558'MSL (300'AGL)UC, 35°51'14"N, 78°53'39"W. Add obst 326'MSL (310'AGL)UC, 34°51'44"N, 76°46'14"W. Add obst 844'MSL (390'AGL)UC, 35°07'18"N, 80°20'10"W.

Add obst 365'MSL (300'AGL)UC, 34°10'08"N, 79°07'27"W. Add obst 421'MSL (310'AGL)UC, 33°55'29"N, 79°54'56"W. Add obst 348'MSL (275'AGL)UC, 33°44'25"N, 79°56'04"W. Add obst 434'MSL (310'AGL)UC, 33°54'35"N, 80°01'52"W.

Add obst 1032'MSL (390'AGL)UC, 34°55'48"N, 80°38'59"W.

AIRPORTS

27 Aug 2009 No Major Changes. 22 Oct 2009 Delete RP* at JAARS-TOWNSEND arpt, 34°51'49"N, 80°44'52"W. Delete JORDAN arpt, 33°32′23″N, 79°31′55″W.

NAVAIDS

27 Aug 2009 No Major Changes. **22 Oct 2009** Delete JOHNS ISLAND NDB, 32°42′05″N, 80°00′20″W.

27 Aug 2009 Revise Albemarle, NC Class D; That airspace extending upward from the surface to and including 3,100 feet MSL within a 5.8-mile radius of Stanly County Airport and within 1.5 miles each side of the 043 degree bearing from Stanly County Airport to 7.8 miles Northeast. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory. 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MISCELLANEOUS

CHARLOTTE TERMINAL AREA CHART 41st Edition. 30 Jul 2009

OBSTRUCTIONS

27 Aug 2009 Add obst 1335'MSL (575'AGL)UC, 35°12'56"N, 81°45'44"W. 22 Oct 2009 Add obst 844'MSL (390'AGL)UC, 35°07'18"N, 80°20'10"W.

AIRPORTS

27 Aug 2009 Revise Albemarle, NC Class D; That airspace extending upward from the surface to and including 3,100 feet MSL within a 5.8-mile radius of Stanly County Airport and within 1.5 miles each side of the 043 degree bearing from Stanly County Airport to 7.8 miles Northeast. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory. Revise Albemarle, NC Class E; That airspace extending upward from 700 feet above the surface within an 8-mile radius of Stanly County Airport.

Revise Albemarle, NC Class E; That airspace extending wuward from 700' above the surface within an 8-mile radius of Stanly County Airport.

22 Oct 2009 Delete RP* at JAARS-TOWNSEND arpt, 34°51'49"N, 80°44'52"W.

NAVAIDS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 – 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MISCELLANEOUS

CINCINNATI SECTIONAL 82nd Edition. 2 Jul 2009

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OBSTRUCTIONS
2 Jul 2009 No Major Changes.
27 Aug 2009 Add obst 1525'MSL (410'AGL)UC, 40°12'15"N, 82°35'03"W.
Add obst 2811'MSL (305'AGL)UC, 39°24'30"N, 79°21'41"W. Add obst 1687'MSL (380'AGL)UC, 38°00'44"N, 82°10'09"W. Add obst 1341'MSL (300'AGL)UC, 38°43'50"N, 81°22'53"W.
Add obst 3611'MSL (315'AGL)UC, 37°53'06"N, 80°46'24"W.
Add obst 1067'MSL (300'AGL)UC, 38°17'38"N, 82°11'57"W. Add obst 1217'MSL (300'AGL)UC, 38°38'11"N, 81°23'43"W.
Add obst 1328'MSL (350'AGL)UC, 37°37'05"N, 84°15'43"W.
Add obst 1810'MSL (310'AGL)UC, 38°19'51"N, 79°03'36"W.
Add obst 2925'MSL (300'AGL)UC, 37°39'29"N, 80°57'29"W.
Add obst 2752'MSL (300'AGL)UC, 37°32'06"N, 80°55'20"W. Add obst 1213'MSL (310'AGL)UC, 38°41'39"N, 83°37'34"W.
Add obst 1198'MSL (300'AGL)UC, 38°20'28"N, 82°03'56"W.
Add obst 1242'MSL (310'AGL)UC, 39°37'20"N, 82°14'33"W. Add obst 1680'MSL (550'AGL)UC, 39°53'38"N, 79°55'58"W.
22 Oct 2009 Add obst 1224'MSL (300'AGL)UC, 39°44'58"N, 84°23'43"W.
Add obst 1358'MSL (312'AGL)UC, 39°00'37"N, 83°34'13"W.
Add obst 1629'MSL (285'AGL)UC, 36°04'48"N, 84°31'00"W.
Add obst 3434'MSL (270'AGL)UC, 36°43'42"N, 80°27'08"W. Add obst 1674'MSL (554'AGL)UC, 39°42'28"N, 79°57'32"W.
Add obst 1403'MSL (297'AGL)UC, 38°48'04"N, 82°57'44"W.
Add obst 3226'MSL (400'AGL)UC, 40°01'35"N, 78°48'07"W.
Add obst 3190'MSL (400'AGL)UC, 40°03'28"N, 78°48'15"W.
AIRPORTS
2 Jul 2009 No Major Changes.
27 Aug 2009 Change CTAF 122.9 to 123.05 at MCCREARY arpt, 36°41'43"N, 84°23'29"W.
22 Oct 2009 Delete POWELL arpt, 36°02'40"N, 84°00'15"W.
NAVAIDS
2 Jul 2009 - 27 Aug 2009 No Major Changes.
22 Oct 2009 Delete LOUISA NDB, 38°01'13"N, 77°51'32"W.
AIRSPACE
2 Jul 2009 No Major Changes.
27 Aug 2009 Revise WAVERLY, OH Class E. That airspace extending upward from 700 feet above the
surface within a 9.9-mile radius of Pike County Airport. Delete DAYTON Class C freq 127.65. Add DAYTON
Class C freqs 118.425 and 127.225. Revise DAYTON Class C freq from 316.7 to 352.05.
22 Oct 2009 No Major Changes.
SPECIAL USE AIRSPACE
2 Jul 2009 - 22 Oct 2009 No Major Changes.
MILITARY TRAINING ROUTES
2 Jul 2009 - 22 Oct 2009 No Major Changes.
MISCELLANEOUS
2 Jul 2009 - 22 Oct 2009 No Major Changes.
                                   CINCINNATI TERMINAL AREA CHART
                                         21st Edition, 2 Jul 2009
OBSTRUCTIONS
2 Jul 2009 No Major Changes.
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OBSTRUCTIONS
2 Jul 2009 No Major Changes.
27 Aug 2009 Add obst 1144'MSL (258'AGL)UC, 38°42'07"N, 85°22'01"W.
22 Oct 2009 No Major Changes.
AIRPORTS
2 Jul 2009 – 22 Oct 2009 No Major Changes.
NAVAIDS
2 Jul 2009 – 22 Oct 2009 No Major Changes.
AIRSPACE
2 Jul 2009 – 22 Oct 2009 No Major Changes.
SPECIAL USE AIRSPACE
2 Jul 2009 – 22 Oct 2009 No Major Changes.
MILITARY TRAINING ROUTES
2 Jul 2009 – 22 Oct 2009 No Major Changes.
MISCELLANEOUS
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IFR GULF OF MEXICO VERTICAL FLIGHT REFERENCE CHART 12th Edition, 20 Nov 2008

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OBSTRUCTIONS
20 Nov 2008 - 22 Oct 2009 No Major Changes.
20 Nov 2008 - 7 May 2009 No Major Changes.
2 Jul 2009 Add heliport (51XS) Evergreen Helicopters Pvt N29°41'43" W093°57'49".
Add heliport (2TA7) ERA Helicopters Sabine Base Pvt N29°43′03″ W093°51′47
Add heliport (TA12) ERA Petroleum Helicopters Inc Pvt N29°42'12" W093°56'42".
Add heliport 95XS) Air Logistics Sabine Pvt N29°42'45" W093°54'35"
Add heliport (7LA5) Petroleum Helicopters Cameron Pvt N29°46'37" W093°17'59".
Add heliport (81LA) Mobil Chevron Pvt N29°47′09" W093°19'30"
Add heliport (LA78) CAGC DOCK Pvt N29°47'12" W093"19'12"
Add heliport (24LA) ERA Helicopters Cameron Base Pvt N29°46'49" W093°17'34".
Add heliport (13LA) Evergreen Pvt N29°47'05" W093°12'35".
Add heliport (LA53) Air Logistics Pvt N29°45'43" W093°00'54".
Add heliport (LA09) Air Logistics Intracoastal City Pvt N29°47′02″ W092°09′49″.
Add heliport (1LA9) Chevron Intracoastal Pvt N29°46′58" W092°09′24
Add heliport (2LA3) Exxon Intracoastal City Terminal Pvt N29°49'29" W092°07'58".
Add heliport (74LA) ERA Helicopters Pvt N29°49'20" W092°08'17"
Add heliport (7LS4) Petroleum Helicopters Intracoastal City Pvt N29°47'45" W092°09'00".
Add heliport (5LA2) Mobil Pvt N29°41'23"W091°11'40"
Add heliport (9LA4) Texaco Pvt N29°41'12" W091°10'18".
Add heliport (7LS3) Petroleum Helicopters Lake Palourde Base Pvt N29°41'36" W091°05'55".
Add heliport (25LA) ERA Morgan City Pvt N29°38'42" W091°07'08". Add heliport (4LA4) Chevron USA Inc Pvt N29°13'18" W090°13'01".
Add heliport (09LA) ERA Helicopters Fourchon Helibase Pvt N29°07'28" W090°12'19".
Add heliport (9LA3) Air Logistics Fourchon Pvt N29°07′01" W090°12′02"
Add heliport (LS99) Petroleum Helicopters Fourchon Base Pvt N29°06′59" W090°12′17".
Add heliport (OLA7) Exxon Pvt N29°15′14″ W089°57′59″.
Add heliport (GNI) Grand Isle Pvt N29°15′46″ W089°57′40″
Add heliport (LS08) Robert L Suggs Pvt N29°21′19" W089°26′18".
Add heliport (45LA) Air Logistics Venice/N Pvt N29°17'46" W089°22'21"
Add heliport (LS52) ERA Helicopters Venice Base Pvt N29°17′14" W089°22′04".
Add heliport (8LA1) Chevron USA Pvt N29°15'49" W089°21'21
Add heliport (MS78) Pascagoula Refinery PAD NR1 Pvt N30°19′53″ W088°30′32″.
Add heliport (2AL4) Petroleum Helicopters Theodore Pvt N30°25'52" W088°10'45".
27 Aug 2009 - 22 Oct 2009 No Major Changes.
NAVAIDS
20 Nov 2008 - 15 Jan 2009 No Major Changes.
7 May 2009 Change name and ident of SULFY (UX) NDB to SULPHUR (AUR) N30°11′54.7″N,
93°25′14.3″W
2 Jul 2009 - 22 Oct 2009 No Major Changes.
AIRSPACE
20 Nov 2008 - 22 Oct 2009 No Major Changes.
SPECIAL USE AIRSPACE
20 Nov 2008 No Major Changes.
15 Jan 2009 Change W-147A TIMES USED/DAYS to: Continuous.
Change W-147C, D TIMES USED/DAYS to: Continuous
Change W453 TIMES USED/DAYS to: Continuous, OTHER TIMES BY NOTAM;
Change TIMES USED/HOURS to: Intermittent Days.
Change W-602 TIMES USED/DAYS to Continuous.
7 May 2009 - 22 Oct 2009 No Major Changes.
MILITARY TRAINING ROUTES
20 Nov 2008 - 22 Oct 2009 No Major Changes.
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20 Nov 2008 - 22 Oct 2009 No Major Changes.

JACKSONVILLE SECTIONAL 84th Edition, 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 No Major Changes.

22 Oct 2009 Add obst 632'MSL (622'AGL)UC, 27°55'55"N, 82°24'04"W. Add obst 487'MSL (473'AGL)UC, 31°46'58"N, 81°26'27"W.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MEMPHIS SECTIONAL 83rd Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 Add obst 505'MSL (328'AGL), 34°21'56"N, 90°38'14"W.

Add obst 798'MSL (420'AGL)UC, 32°05'24"N, 90°39'59''N. Add obst 979'MSL (499'AGL)UC, 34°13'53"N, 93°16'47"W. Add obst 495'MSL (330'AGL)UC, 33°39'16"N, 92°40'34"W.

Add obst 945'MSL (645'AGL)UC, 33°38'59"N, 93°48'43"W.

AIRPORTS

22 Oct 2009 Add RP 35 to TUNICA MUNI arpt, 34°41′06"N, 90°20′52"W.

NAVAIDS

22 Oct 2009 Shutdown PINHOOK NDB, 35°15'14"N, 88°12'15"W. Change bearing 294° to 293° from HAMILTON VORTAC(HAB) 34°11'42"N, 88°00'45"W.

AIRSPACE

22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 No Major Changes.

MEMPHIS TERMINAL AREA CHART 41st Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 No Major Changes.

22 Oct 2009 Add RP 35 to TUNICA MUNI arpt. 34°41′06″N. 90°20′52″W.

NAVAIDS

22 Oct 2009 No Major Changes.

AIRSPACE

22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 No Major Changes.

MIAMI SECTIONAL 85th Edition, 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 No Major Changes. **22 Oct 2009** Add obst 306'MSL (250'AGL)UC, 27°39'56"N, 81°22'11"W. Add obst 632'MSL (622'AGL)UC, 27°55'55"N, 82°24'04"W.

27 Aug 2009 No Major Changes.

22 Oct 2009 Delete COXS HAMMOCK arpt, 27°04'18"N, 80°31'12"W.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MISCELLANEOUS

MIAMI TERMINAL AREA CHART 74th Edition, 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

AIRPORTS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

NAVAIDS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

AIRSPACI

27 Aug 2009 - 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MISCELL ANEOUS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

NEW ORLEANS SECTIONAL 84th Edition. 4 Jun 2009

OBSTRUCTIONS 2 Jul 2009 Add obst 400' MSL (380' AGL), 30°16'18"N, 87°34'27"W. Add obst 893' MSL (305' AGL), 32°04'34"N, 89°04'34"W. Add obst 1000' MSL (551' AGL), 31°36'32"N, 89°25'44"W. Add obst 603' MSL (318' AGL), 31°38'42"N, 90°12'53"N. Add obst 725' MSL (349' AGL), 31°07'43"N, 90°46'11"W. Add obst 949' MSL (620' AGL), 31°15'30"N, 89°55'59"W. Add obst 508' MSL (490' AGL), 30°34'00"N, 87°13'37"W. Add obst 497' MSL (305' AGL), 31°22'14"N, 88°15'01"W. **27 Aug 2009** Add obst 289' MSL (230' AGL), 30°34'24"N, 90°35'30"W. Add obst 983' MSL (498' AGL), 31°26'02"N, 90°34'46"W. Add obst 745' MSL (420' AGL), 31°35'40"N, 89°58'56"W. Add obst 434' MSL (315' AGL), 31°00'49"N, 89°47'46"W. **22 Oct 2009** Add obst 599' MSL (310' AGL), 31°30'06"N, 86°22'13"W. Add obst 793' MSL (420' AGL), 31°30'09"N, 86°42'18"W. Add obst 695' MSL (420' AGL), 31°44'23"N, 87°11'14"W. Add obst 964' MSL (420' AGL), 31°49'30"N, 89°54'01"W. **AIRPORTS** 2 Jul 2009 No Major Changes. 27 Aug 2009 Delete PIKER-T00, 31°00'42"N, 90°58'05"W. Delete WATSON, 30°57′09"N, 85°25′02"W. 22 Oct 2009 No Major Changes.

NAVAIDS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

AIRSPACE

27 Aug 2009 No Major Changes.

22 Oct 2009 Change TYNDALL AFB ATCT frequency from 384.4 to 263.15, 30°04′12″N, 85°34′35″W.

SPECIAL USE AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

2 Jul 2009 No Major Changes.

27 Aug 2009 IR 15 Revise ceiling from 20 MSL to 50 MSL from Point D to Point H.

22 Oct 2009 No Major Changes.

MISCELLANEOUS

2 Jul 2009 No Major Changes.

27 Aug 2009 Change MEF 1° TO 11 in quadrant 31°00′-31°30′N, 89°30′-90°00′W.

22 Oct 2009 No Major Changes.

ORLANDO TERMINAL AREA CHART 39th Edition. 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

PUERTO RICO-VIRGIN ISLAND TERMINAL AREA CHART 36th Edition, 22 Oct 2009

OBSTRUCTIONS

22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 No Major Changes.

ST. LOUIS SECTIONAL 80th Edition, 2 Jul 2009

OBSTRUCTIONS

2 Jul 2009 No Major Changes.

27 Aug 2009 Add obst 1144'MSL (258'AGL)UC, 38°42'07"N, 85°22'02"W.

Add obst 1328'MSL (350'AGL)UC, 37°37'05"N, 84°15'43"W.

Add obst 865'MSL (304'AGL)UC, 37°22'45"N, 88°39'47"W. Add obst 1265'MSL (290'AGL)UC, 37°32'46"N, 90°12'37"W.

Add obst 560'MSL (260'AGL)ÚC, 36°40'24"N, 89°58'57"W.

Add obst 995'MSL (260'AGL)UC, 39°04'38"N, 90°50'02"W. Add obst 792'MSL (270'AGL)UC, 37°38'14"N, 87°38'10"W. Add obst 865'MSL (306'AGL)UC, 39°12'53"N, 87°20'48"W.

22 Oct 2009 Add obst 1224'MSL (300'AGL)UC, 39°44'58"N, 84°23'43"W.

Add obst 1629'MSL (285'AGL)UC, 36°04'48"N, 84°31'00"W.

Add obst 916'MSL (258'AGL)UC, 40°03'49"N, 87°42'44"W. Add obst 934'MSL (520'AGL)UC, 38°06'35"N, 90°15'30"W. Add obst 1197'MSL (260'AGL)UC, 37°44'20"N, 90°30'11"W.

Add obst 1025'MSL (275'AGL)UC, 37°21'50"N, 90°41'52"W.

Add obst 797'MSL (330'AGL)ÚC, 36°34'10"N, 88°50'13"W. Add obst 754'MSL (320'AGL)UC, 36°47'55"N, 88°30'22"W.

AIRPORTS

2 Jul 2009 No Major Changes.

27 Aug 2009

27 Aug 2009 Change CAPE GIRARDEAU ATCT freq 119.0 to 125.525, 37°13'31"N, 89°34'15"W.

Change CTAF 119.0 to 125.525 at CAPE GIRARDEAU arpt, 37°13'31"N, 89°34'15"W.

Delete O'NEAL arpt, 38°41'29"N, 87°33'08"W.

Change CTAF 122.9 to 123.05 at MC CREARY CO arpt, 36°41'43"N, 84°23'29"W.

Delete HEMP RIDGE arpt, 38°09'11"N, 85°07'08"W. Delete SMITH arpt, 39°18'47"N, 90°16'40"W.

22 Oct 2009 Delete CLARK arpt. 40°11'40"N, 86°31'23"W.

Delete POWELL arpt, 36°02'40"N, 84°00'16"W.

Delete HIGGINBOTHAM arpt, 39°20'29"N, 87°31'53"W.

NAVAIDS

2 Jul 2009 - 22 Oct 2009 No Major Changes.

AIRSPACE

2 Jul 2009 No Major Changes.

27 Aug 2009 Revise MOUNT STERLING, IL CLASS E: That airspace extending upward from 700 feet above the surface within a 6.6-mile radius of Mount Sterling Municipal Airport. Delete DAYTON Class C freq 127.65. Add DAYTON Class C freqs 118.425 and 127.225. Revise DAYTON Class C freq from 316.7 to 352.05

22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

2 Jul 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

2 Jul 2009 - 22 Oct 2009 No Major Changes.

MISCELLANEOUS

2 Jul 2009 - 22 Oct 2009 No Major Changes.

TAMPA TERMINAL AREA CHART 39th Edition. 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 No Major Changes.

22 Oct 2009 Add obst 632'MSL (622'AGL)UC, 27°55'55"N, 82°24'04"W.

AIRPORTS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

NAVAIDS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

AIRSPACE 27 Aug 2009 – 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

WASHINGTON SECTIONAL 86th Edition, 30 Jul 2009

OBSTRUCTIONS

27 Aug 2009 No Major Changes. 22 Oct 2009 Add obst 588'MSL (421' AGL) UC, 37°35'09"N, 77°15'47"W.

Add obst 434'MSL (400' AGL) UC, 36°26'12"N, 76°43'25"W. Add obst 3226'MSL (400' AGL) UC, 40°01'35"N, 78°48'07"W. Add obst 369'MSL (309' AGL) UC, 37°24'37"N, 76°32'51"W.

27 Aug 2009 No Major Changes. 22 Oct 2009 Delete BOLLING AFB heliport, 38°50′34″N, 77°00′58″W.

NAVAIDS

27 Aug 2009 No Major Changes.

22 Oct 2009 Delete LOUISA NDB, 38°01′14″N, 77°51′33″W.

27 Aug 2009 - 22 Oct 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 22 Oct 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private—use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

	ST	

CILITY NAME Collingwood ON (CNV2)	CHART & PANE
Collingwood, ON (CNY3)	H-11B, L-31[
Toronto Center App/Dep Con 124.02 Cornwall Rgnl, ON (CYCC)	1 220
	L-320
Boston Center App/Dep Con 135.25 377.1 Cranbrook/Canadian Rockies Intl, BC (CYXC)	H–10
Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	H-TC
Debert, NS (CCQ3)	H-11E, L-32
Halifax Trml App/Dep Con 119.2	II-IIL, L-32.
Digby, NS (CYID)	L-32
Moncton Center App/Dep Con 123.9	L-32.
Downsview, ON (CYZD)	H-11B, L-318
Toronto Center App Con 133.4	11 110, 2 011
Toronto Center Dep Con 133.4	
MF 126.2 (3 NM to 1900')	
Drummondville, QC (CSC3)	L-32h
Montreal Center App/Dep Con 132.35	L-321
Earlton (Timiskaming Rgnl), ON (CYXR)	H-11E
MF 122.0 (5 NM to 3800')	11-111
AWOS 128.6	
Elliot Lake Muni, ON (CYEL)	L-310
	L=310
Toronto Center App/Dep Con 135.4 Fort Frances Muni, ON (CYAG)	L-14h
	L-14F
Minneapolis Center App/Dep Con 120.9	U 11E I 22
Fredericton Intl, NB (CYFC) ATIS 127.55	H-11E, L-32
Moncton Center App/Dep Con 124.3 135.5 270.8 Clnc Del 121.7 (Ltd hrs)	
MF 119.0 (5 NM to 3500')	U 44D L 041
Goderich, ON (CYGD)	H-11B, L-31[
Toronto Center App/Dep 135.3 266.3	11 445 1 22
Greenwood, NS (CYZX)	H-11E, L-32
ATIS 128.85 244.3 (1100-0000Z‡)	
App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3	
Gnd Con 133.75 289.4 Clnc Del 128.05 283.9	
Grimsby Air Park, ON (CNZ8)	L-31
Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	
Halifax/Shearwater, NS (CYAW)	H-11E, L-32
ATIS 129.175 (Ltd hrs)	
App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs)	
Gnd Con 121.7 250.1	
Halifax/Stanfield Intl, NS (CYHZ)	H-11E, L-32
ATIS 121.0	
Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8	
Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95	
Apron Advisory 122.125	
Hamilton, ON (CYHM)	H-10H, 11B, L-11E
ATIS 128.1	
Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0	
Gnd Con 121.6	
Kingston, ON (CYGK)	H-11C, L-31E, 32
Montreal Center App/Dep Con 135.05 398.4 (0400-1115Z‡)	
MF 122.5 (1115-0400Z‡ 5 NM to 3300')	
Kitchener/Waterloo, ON (CYKF)	H-11B, L-31
ATIS 125.1 (1200-0400Z‡)	
Toronto Trml App/Dep Con 128.275	
Waterlan Tower 100 0 110 FE (1000 01007t) Cod Con 101 0	
Waterloo Tower 126.0 118.55 (1200-0400Z‡) Gnd Con 121.8	
MF 126.0 (0400–1200Z‡ 5 NM to 4000')	
	L-320
MF 126.0 (0400-1200Z‡ 5 NM to 4000')	L-320
MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3	L-320
MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	
MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 La Tuque, QC (CYLQ)	
MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5	H-110
MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5 Langley, BC (CYNJ)	L-320 H-110 L-11
MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5	H-110

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CILITY NAME Leamington, ON (CLM2)	CHART & PAN
Cleveland Center App/Dep Con 132.45	
Lethbridge, AB (CYQL)	H-1
ATIS 124.4 (1300-0545Z‡)	
Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	
Lindsay, ON (CNF4)	L-31E, L-32
Toronto Center App/Dep 134.25	
Liverpool/South Shore Rgnl, NS (CYAU)	L-32
Moncton Center App/Dep Con 123.9	
London, ON (CYXU)	H-10G, 11
ATIS 127.8 (1120-0345Z‡)	L-30G, 31
Toronto Center App/Dep 135.3 135.625	, .
Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9	
MF 119.4 (0345–1120Z‡ 5 NM to 3000′)	
Manitowaning/Manitoulin East Muni, ON (CYEM)	L-31
Toronto Center App/Dep 135.4 260.9	2 0.
Maniwaki, QC (CYMW)	L-32
Montreal Center App/Dep Con 126.57	L-32
Mascouche, QC (CSK3)	L-32
MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the	L-32
N shore of Riviere des Milles–lles and 1 NM around Lac Agile Mascouche arpt.)	
Medicine Hat, AB (CYXH)	H-1
	п
AWOS 124.875 (0345–1245Z‡)	
MF 122.2 (1245–0345Z‡ 5 NM to 5400′)	1.00
Midland/Huronia, ON (CYEE)	L-3:
Toronto Center App/Dep 124.025	11.445.1.0
Miramichi, NB (CYCH)	H-11E, L-3
Moncton Center App/Dep Con 123.7	
Moncton/Greater Moncton Intl, NB (CYQM)	H-11E, L-3
ATIS 128.65	
App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8	
Apron Advisory 122.075	
Mont-Laurier, QC (CSD4)	L-32
Montreal Center App/Dep Con 126.57	
Montreal Intl (Mirabel), QC (CYMX)	H-11C, 12K, L-32
ATIS 125.7	
Montreal Center App Con 124.65 132.85 268.3	
Montreal Dep Con 132.85	
MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL)	H-11C, 12K, L-32
ATIS 133.7	
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3	
Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075	
Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE)	
VFR Advisory 134.15	
	H-11C, L-3
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU)	H-11C, L-32
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9	H-11C, L-32
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3	H-11C, L-3
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z)	H-11C, L-3:
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar	H-11C, L-3:
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500′) VFR Advisory 134.15	
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500′) VFR Advisory 134.15 Muskoka, QN (CYQA)	
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575	
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900')	H-11B, L-3:
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Nanaimo, BC (CYCD)	H-11B, L-3:
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500′) VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900′) Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500′)	H-11B, L-3: H-1B, L-
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500′) VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900′) Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500′) North Bay, QN (CYYB)	H-11B, L-3: H-1B, L-
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Nanaima, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡)	H-11B, L-3: H-1B, L-
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500′) VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900′) Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500′) North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25	H-11B, L-3: H-1B, L-
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500′) VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900′) Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500′) North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000′)	H-11B, L-3: H-1B, L- H-11B, L3:
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500′) VFR Advisory 134.15 Muskoka, DN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900′) Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500′) North Bay, DN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000′) Oshawa, ON (CYOO)	H-11B, L-3: H-1B, L-: H-11B, L3:
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500′) VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900′) Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500′) North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000′) Oshawa, QN (CYOO) ATIS 125.675 (1130-0330Z‡)	H-11B, L-3: H-1B, L- H-11B, L3:
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500′) VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900′) Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500′) North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000′) Oshawa, QN (CYOO) ATIS 125.675 (1130-0330Z‡) Toronto Trml App Con 133.4	H-11B, L-3: H-1B, L-: H-11B, L3:
VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500′) VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900′) Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500′) North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000′) Oshawa, QN (CYOO) ATIS 125.675 (1130-0330Z‡)	H-11C, L-32 H-11B, L-31 H-11B, L31 L-33

CILITY NAME	CHART & PANEL
Ottawa/Carp, ON (CYRP)	L-31E, 32F
ATIS 121.15	
Ottawa Trml App/Dep Con 128.175 252.5	
Ottawa/Gatineau, QC (CYND)	H-11C, L-320
Ottawa Trml App/Dep Con 127.7 128.175 252.5 MF 122.3 (5 NM shape irregular to 2500')	
VFR Advisory Ottawa Trml 127.7	
Ottawa/MacDonald-Cartier Intl, ON (CYOW)	L-110
ATIS 121.15	L-11(
Ottawa App Con 135.15 Tower 118.8 120.1 341.3	
Gnd Con 121.9 Clnc Del 119.4	
Ottawa Dep Con 128.175	
Owen Sound/Billy Bishop Rgnl, ON (CYOS)	L-310
Toronto Center App/Dep 132.575 290.6	
Pelee Island, ON (CYPT)	L-301
Cleveland Center App/Dep Con 126.35 360.0	
Pembroke, ON (CYTA)	H-11C, L-31E, 32I
Montreal Center App/Dep Con 135.2	
Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z‡, OT PPR)	
Penticton, BC (CYYF)	H-1E
Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	
Peterborough, ON (CYPQ)	H-11B, L-31E, 32
AWOS 126.925	
Toronto Center App/Dep 134.25	
Pincher Creek, AB (CZPC)	H-11
Edmonton Center App/Dep Con 132.75 265.2	
Pitt Meadows, BC (CYPK)	L-1
ATIS 125.0 (1500-0700Z‡)	
Vancouver Center App Con 128.6 352.7 (Outer)	
Pitt Tower 126.3 (1500–0700Z‡) Gnd Con 123.8	
Vancouver Center Dep Con 132.3 363.8 (South)	
MF 126.3 (0700–1500Z‡) (3NM to 2500′)	
Quebec/Jean Lesage Intl, QC (CYQB)	H-11D, L-32H
ATIS 134.6	
Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8	
(185.65 Quebec Twr VFR acft at or below 3000') Tower 118.65 236.6	
Gnd Con 121.9 250.0	11.441
Riviere Du Loup, QC (CYRI)	H-11[
AWOS 122.025 (Pvt) Martroal Contar App (Dep Con 125 1 200 6	
Montreal Center App/Dep Con 125.1 299.6 Rouyn Noranda, QC (CYUY)	H-11I
Montreal Center App/Dep Con 125.9	U-TTI
MF 122.2 (5 NM to 4000')	
Saint John, NB (CYSJ)	H-11E, L-32
Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	11 111, 1 02
Sarnia (Chris Hadfield), ON (CYZR)	H-10G, 11B, L-30
Toronto Center 134.375	11 100, 110, 2 00
Sault Ste Marie, ON (CYAM)	H-2K, L-31I
ATIS 133.05 (1300–0100Z‡)	2., 2 02.
Toronto Center App/Dep Con 132.65 344.5	
Tower 118.8 (1300-0100Z‡) Gnd Con 121.7	
MF 118.8 (0100–1300Z‡ 5 NM irregular shape to 3000')	
Sherbrooke, QC (CYAM)	H-11D, L-32F
AWOS 126.25	
Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	
South Renfrew Muni, ON (CNP3)	L-31E, 32
Montreal Center App/Dep 124.275	. ,,
Southport, MB (CYPG)	H-21
ATIS 120.85 (Mon-Fri 1400-2300Z‡ except holidays)	
Tower 126.2 384.2 (Mon-Fri 1400-2300Z‡ except holidays)	

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Springwater Barrie Airpark, ON (CNA3)	CHART & PANE L-31
Toronto Center App/Dep Con 124.025	L-31
St. Catherines/Niagara District, ON (CYSN)	H-10H, 11B, L-31
ATIS 128.525 (1215–0200Z‡)	11 1011, 110, 1 01
Toronto Trml App/Dep Con 133.4 253.1	
MF 123.25 (1215–0200Z‡ 5 NM to 3300′)	
St. Frederic, QC (CSZ4)	L-32
Montreal Center App/Dep Con 135.025 270.9	L 02
St. Georges, QC (CYSG)	H-32H, L-11
Montreal Center App/Dep Con 132.35	52, 2 11
MF 122.15 (5 NM 3900' ASL)	
St. Jean, QC (CYJN)	L-32
Montreal Center App/Dep Con 125.15 268.3	L 02
Tower 118.2 (Apr-Oct 1230–0230Z‡ Nov–Mar 1300–0200Z‡)	
Gnd Con 121.7	
Sudbury, ON (CYSB)	H-31B, 10G, L-31
ATIS 127.4	11-31b, 10d, L-31
Toronto Center App/Dep Con 135.5	
MF 125.5 (7 NM to 4000')	
Summerside, PE (CYSU)	H-11E, L-32
	11-11L, L-32
AWOS 122.55 (Pvt)	
Moncton Center App/Dep Con 124.4 384.8	H-2J, L-14
Thunder Bay, ON (CYQT)	Π−2J, L−1²
ATIS 128.8 (1100-0400Z‡) Winnipeg Center App/Dep Con 132.125 (0400-1100Z‡)	
Tower 118.1 (1100–0400Z‡) Gnd Con 121.9	
App/Dep 119.2 MF 118.1 (0400–1100Z‡ 5 NM to 4000′)	
Timmins, ON (CYTS)	H-11
ATIS 124.95 (1000–0500Z‡)	
Toronto Center App/Dep Con 128.3 226.3 MF 122.3 (5 NM to 4000')	1 24
Toronto/Buttonville Muni, ON (CYKZ)	L-31
ATIS 127.1 (1200–0400Z‡)	
Toronto Center App Con 133.4 Toronto Center Dep Con 133.4	
Tower 124.8 119.9 (1200–0400Z‡) Gnd Con 121.8	
MF 124.8 (0400–1200Z‡ No gnd station. 5 NM shape irregular to below 2500')	L-31
Toronto/City Centre, ON (CYTZ)	L-31
ATIS 133.6 (1130–0400Z‡)	
App Con 133.4 Dep Con 133.4	
Tower 118.2 119.2 226.5 (1130-0400Z‡) Gnd Con 121.7	
Toronto/Lester B Pearson Intl, ON (CYYZ)	H-11B, L-31
ATIS 120.825	
App Con 124.475 125.4 132.8 Dep Con 127.575 128.8	
Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9	
Clnc Del 121.3 (1200-0400Z‡) VFR Advisory 119.3 133.4	
	H-11C, L-31E, 32
Trenton, ON (CYTR)	
ATIS 135.45 257.7	
ATIS 135.45 257.7	
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8	H-11C, L-31E, 32
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4	H-11C, L-31E, 32
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3)	
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, 0N (CPZ3) Trenton Mil Advisory 268.0	
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, QC (CYRQ)	
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2	H-11C, L-32
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4 Trenton/Mountain (view, ON (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200')	H-11C, L-32
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, ØN (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Val—D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3	H-11C, L-32
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Val-D'or, QC (CYVO)	H-11C, L-32 H-12
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-03252‡ 5 NM to 4000')	H-11C, L-32 H-11
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-03252‡ 5 NM to 4000') Vancouver Intl, BC (CYVR) ATIS 124.6 124.75	H-11C, L-32 H-11
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, ØN (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, ØC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Val-D'or, ØC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z‡ 5 NM to 4000') Vancouver Intl, ØC (CYVR) ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner)	H-11C, L-32 H-11
ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-03252‡ 5 NM to 4000') Vancouver Intl, BC (CYVR) ATIS 124.6 124.75	H-11C, L-31E, 3; H-11C, L-32 H-11 H-1B, L-1

SUPPLEMENTAL COMMUNICATION REFERENCE

ILITY NAME	CHART & PANEL
/ictoria Intl, BC (CYYJ)	H-1B, L-1E
ATIS 118.8 (1400-0800Z‡)	
App Con 125.95 308.4 Dep Con 133.85 308.4	
Tower 119.1 (Outer) 119.7 (Inner) 239.6	
Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7)	
Cinc Del 126.4 (1400–0800Z‡)	
/ictoriaville, QC (CSR3)	L-32H
Montreal Center App Con 132.35	
Naterville/Kings Co Muni, NS (CCW3)	L-32J
Greenwood Trml App/Dep Con 120.6 335.9	
Greenwood Tower 119.5 324.3	
Wiarton, ON (CYVV)	H-11B, L-31D
Toronto Center App/Dep Con 132.575	
MF 122.2 (5 NM to 3700')	
Vindsor, ON (CYQG)	H-10G, L-8J
ATIS 134.5 (1130-0330Z‡)	
Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2	
Tower 124.7 (1130-0330Z‡) Gnd Con 121.7	
MF 124.7 (0330–1130Z‡ 6 NM irregular shape to below 3000')	
VFR Advisory Detroit App Con 134.3	
/armouth, NS (CYQI)	H-11E, L-32
Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	
MEVIOO	
MEXICO	CHART & DANEI
ILITY NAME	CHART & PANEL
Abraham Gonzalez Intl (MMCS)	H-4K, L-6F
Juarez App Con 119.9 Juarez Tower 118.9	II 7D I 000
Del Norte Intl (MMAN)	H-7B, L-20G
ATIS 127.55 (1300–0300Z‡)	
Monterrey App 119.75 120.4 Tower 118.6	
Ourango Intl (MMDO)	H-7A
ATIS 132.1	
Tower 118.1 Durango Info 122.3	
General Abelardo L Rodriguez Intl (MMTJ)	H–4H, L–4H
ATIS 127.9	
Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Clnc Del 122.35	
Tijuana Info 132.1	
General Lucio Blanco Intl (MMRX)	H-7B, L-20H
Reynosa App Con 118.8 Reynosa Tower 118.8	
General Mariano Escobedo Intl (MMMY)	H-7B, L-20G
ATIS 127.7	
Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	
General R Fierro Villalobos Intl (MMCU)	L-6
ATIS 127.9	
Chihuahua App Con 121.0 Chihuahua Tower 118.4	
General Rodolfo Sanchez Taboada Intl (MMML)	H-4H, L-4J, 5A
General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6	H-4H, L-4J, 5A
General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	
General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 General Servando Canales (MMMA)	
Ceneral Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Ceneral Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	H-7C, L-21A
ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Memeral Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO)	H-7C, L-21A
ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Mexicali App Con 118.0 Mexicali Tower 118.0 Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4	H-7C, L-21A
ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4 Quetzalcoatl Intl (MMNL)	H-4H, L-4J, 5A H-7C, L-21A H-7B H-7B, L-20G
ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Mexicali App Con 118.0 Mexicali Tower 118.0 Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4	H–7C, L–21A H–7B H–7B, L–20G
ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4 Quetzalcoatl Intl (MMNL)	H-7C, L-21A

In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

- 1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., 🖏 💽 😧
- 2. Approach lighting systems that do not bear a system identification are indicated with a negative "n" beside the name.

A star (*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., 0*

To activate lights use frequency indicated in the communication section of the chart with a $m{0}$ or the appropriate lighting system identification e.a., UNICOM 122 8 A 🙈 🗪

allon e.g., ONICOM	122.0	U,	(a), (c)	•
KEY MIKE				

7 times within 5 seconds

5 times within 5 seconds

3 times within 5 seconds

FUNCTION Highest intensity available

Medium or lower intensity (Lower REIL or REIL-off)

Lowest intensity available (Lower REIL or REIL-off)

CHART CURRENCY INFORMATION

Date of latest change Orig 00365 FAA procedure amendment number— -Amdt 11A 99365

The Chart Date indentifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

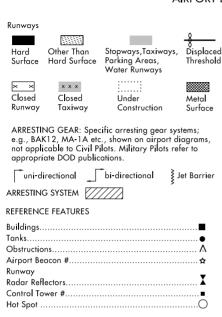
MISCELLANEOUS

- Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- Indicates control tower temporarily closed UFN.

09071 LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM



When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A D symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information. Helicopter Alighting Areas (H) [H] [H] [A] [H] Negative Symbols used to identify Copter Procedures landing point......

Runway Threshold elevation.....THRE 123 Runway TDZ elevation.....TDZE 123 -- 0.3% DOWN

(shown when runway slope is greater than or equal to 0.3%)

Runway Slope measured to midpoint on runways 8000 feet or longer.

U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

Airport digaram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

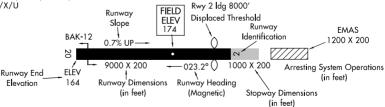
Positional accuracy within ±600 feet unless otherwise noted on the chart.

All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 S75, T185, ST175, TT325

PCN 80 F/D/X/U



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

AIRPORT DIAGRAMS HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on a airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as circles or polygons designated as "HOT1", "HOT2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
	ALABAI	MA
MONTGOMERY MONTGOMERY RGNL		
(DANNELY FIELD) (MGM)	HOT ¹	Intersection of Twy A3 and the terminal ramp. Potential confusion of Twy A3 as the taxi route to
	HOT ²	Rwy 10/28. Intersection of the Twy A5 and the ANG ramp. Potential exiting Rwy 10/28 at Twy A5.
	FLORII	NA
DAYTONA BEACH		
DAYTONA BEACH INTL (DAB)	HOT ¹	Pilots taxiing southbound on Twy W sometimes miss the right turn on Twy S and enter the runway without clearance.
MIAMI		
MIAMI INTL, FL (MIA)	HOT ¹ HOT ²	Multiple intersections closely spaced. Departure taxi out of Spot 15, Spot 14, Spot 13, misidentification of Twy P and Twy Q at Twy T has
STUART	HOT ³	lead to rwy incursions onto Rwy 12–30. Twy runway ends in close proximity.
WITHAM FIELD (SUA)	HOT ¹	Intersecting rwys, wrong rwy departure risk. (Check rwy alignment.)
	HOT ²	Rwy 12 and Twy A1.
	GEORG	ilA
AUGUSTA		
I .	4	

HOT1 AUGUSTA RGNL AT BUSH FLD (AGS) Intersection of Twy E and Rwy 17/35.

NORTH CAROLINA

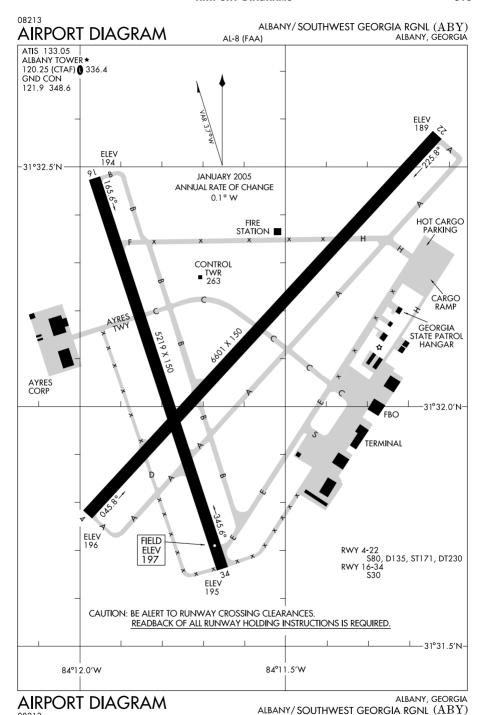
CHARLOTTE

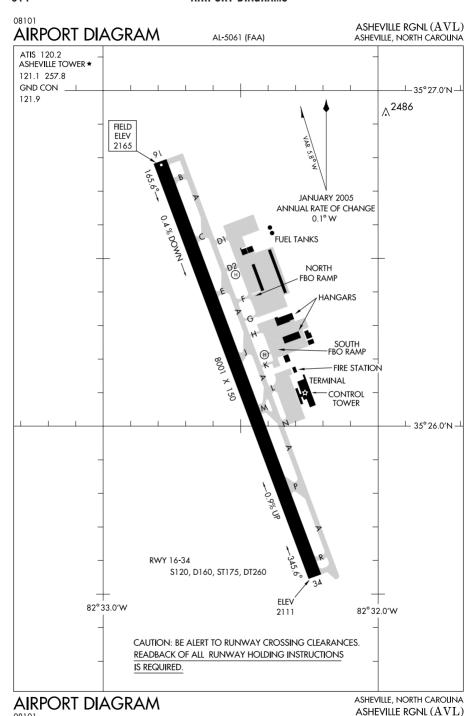
HOT1 CHARLOTTE/DOUGLAS INTL (CLT) Confusing intersection due to convergence of Twvs

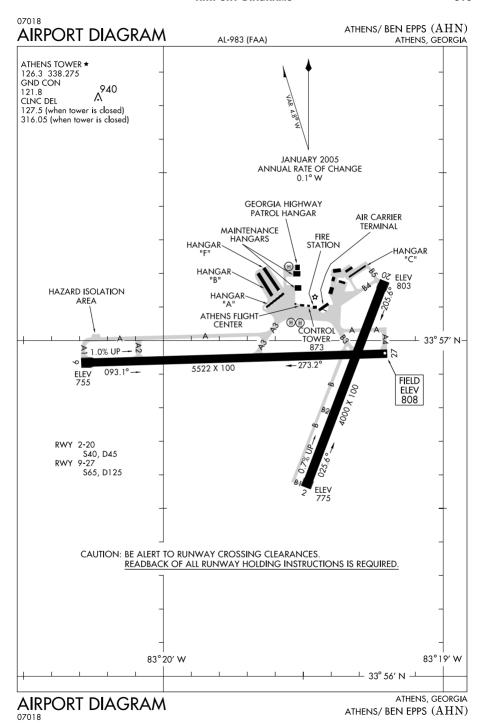
R, A, C and C9, along with grass island.

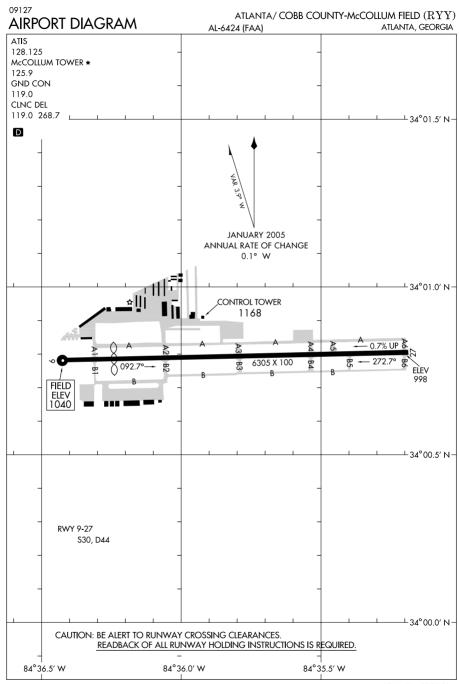
RALEIGH/DURHAM

HOT1 RALEIGH-DURHAM INTL (RDU) Intersection of Rwy 5R/23L and Twy C.

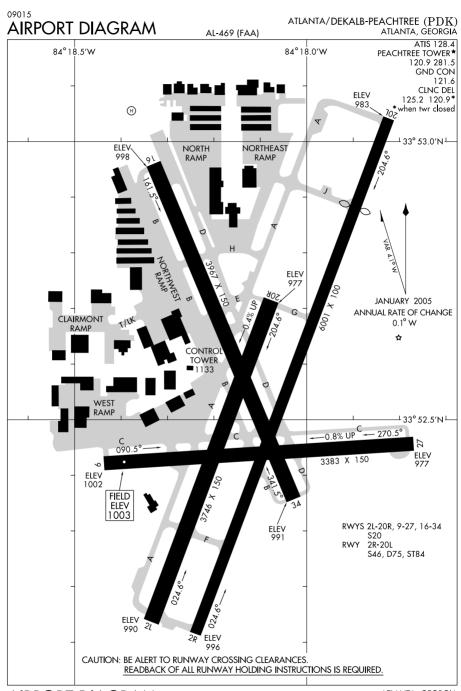




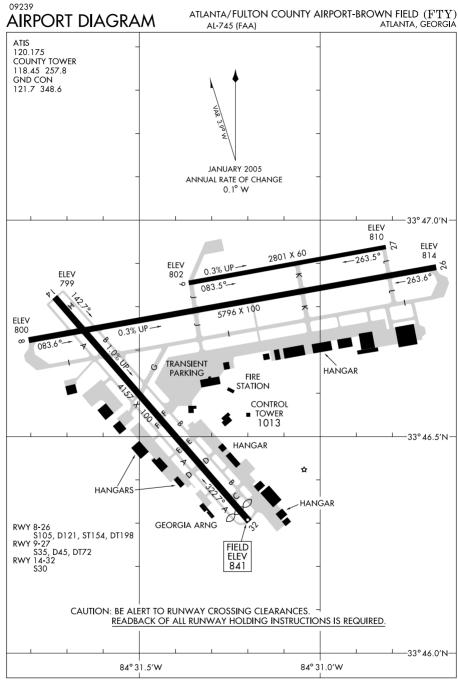




ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)



 $\begin{array}{c} \text{ATLANTA, GEORGIA} \\ \text{ATLANTA/DEKALB-PEACHTREE} \ (PDK) \end{array}$

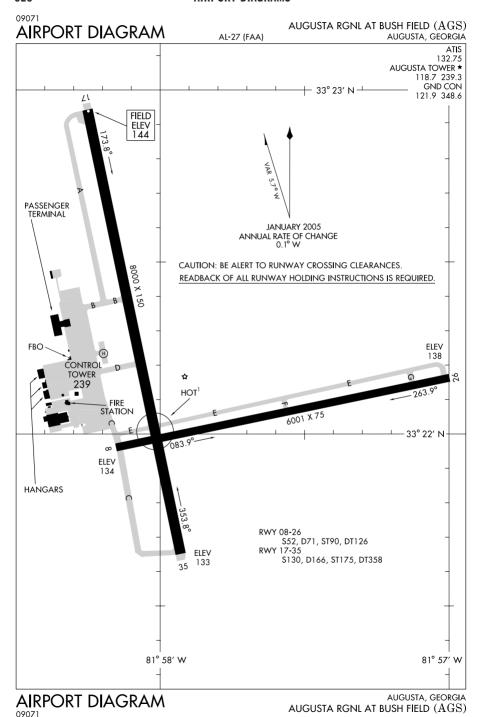


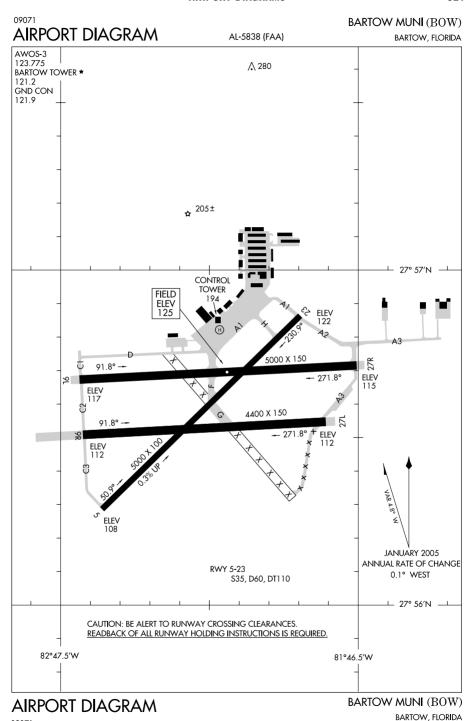
 $\begin{array}{c} \text{ATLANTA, GEORGIA} \\ \text{ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD } (FTY) \end{array}$

09239 ATLANTA/HARTSFIELD - JACKSON ATLANTA INTL (ATL)AIRPORT DIAGRAM ATLANTA, GEORGIÁ AL-26 (FAA) ATIS ARR 119.65 *Group VI aircraft are restricted from using Taxiway Foxtrot ATIS DEP 125.55 east of Ramp 5 North to the west side of Taxiway Charlie. ATLANTA TOWER *Group VI aircraft are restricted from using Taxiway Lima 119.1 381.6 Rwy 8L-26R 125.325 381.6 Rwy 8R-26L east of Ramp 5 South to west of Ramp 6 South. 119.3 381.6 Rwy 9R-27L *Aircraft with wingspan greater than 171' are restricted from 123.85 381.6 Rwy 9L-27R using Taxiway Victor. 119.5 381.6 Rwy 10-28 33°40′N **GND CON** 121.9 381.6 (Rwys 8L-26R, 8R-26L) 121.75 381.6 (Rwys 9L-27R, 9R-27L) 121.65 381.6 (Rwy 10-28) CLNC DEL YAR 118.1 D CITY LANDING AIRCRAFT CAN EXPECT TO REMAIN HANGAR ON TOWER FREQUENCY UNTIL SPECIFICALLY NORTH INSTRUCTED TO CONTACT GROUND CONTROL CARGO JANUARY 2005 AIRTRAN CAUTION: BE ALERT TO RAMP ANNUAL RATE OF CHANGE **DELTA** RUNWAY CROSSING CLEARANCES. HANGAR NORTH READBACK OF ALL RUNWAY FIRE HOLDING INSTRUCTIONS IS REQUIRED FBO STATION ELEV HÖLD **FUEL** RWY 26R 990 IIS **FARMS APPROACH** HOLD A11 **AREA** ELEV LÉLEV HOLD FARM LAHSO 11015 IN 4% DOWN 33°39′N ILS 094.0 B 8>X ILS HOLD LAHSO ii i i i B () (-ILS HOLD HÖLD 0.4% DOWN _ 1024 % 1 0% DOWN - 2 797 _ 10000 X 094.0 274.0 ELEV FIRE F 995 STATION . 0 0 3N 4N 5N 6N TERMINAL LCONTROL TOWFP DAL JET BASE RAMP RAMP RAMP RAMP RAMP 1357 FIRE STATION FLEV 35 45 25 55 68 ILS HOLD 1019 2 24; ထ φM Μ M M20 ≥ ₹ ELEV 978 094.0 0 4% UP 0.3% DOWN 11890 X 274.0° -33° 38′N-0.5% UP 10 - ILS 0.4% A DOWN -274.0° Fi 1094.0° HOLD HOLD Taxis J, K, N12 LAHSO 9001 X 150 ELEV 5 S **FIELD** Ramp Frequencies: RWYS 8L-26R, 9L-27R **ELEV** \$120, D200, \$T175, DT360 131.45 ELEV 1026 Ramp 1 SJ2 PCN 62 R/A/W/T Ramp 2 131.85 1000 NWA RWYS 8R-26L Ramp 3 129.27 **HANGAR** S120, D200, ST175, DT360 130.07 Ramp 4 SJ1 FIRE PCN 74 R/A/W/T SÒUTH Ramp 5 129.37 STATION 131.37 **CARGO** RWYS 9R-27L Ramp 6 S120, D200, ST175, DT360 RAMP PCN 68 R/A/W/T SCO SG SG **RWYS 10-28** S75, D209, ST175, DT600, **DDT900** 094.0°-9000 X 150 274.0 ELEV ELEV PCN 74 R/A/W/T 1000 998 CAUTION: Pilots are cautioned not to mistake the marked concrete on -33°37′N Rwy 10/28 and taxiway SG for a ASDE-X Surveillance system taxiway at the I-285 overpass. in use. Pilots should operate 84°25′W 84° 27′W 84° 26′W transponders with Mode C on all twys & rwys.

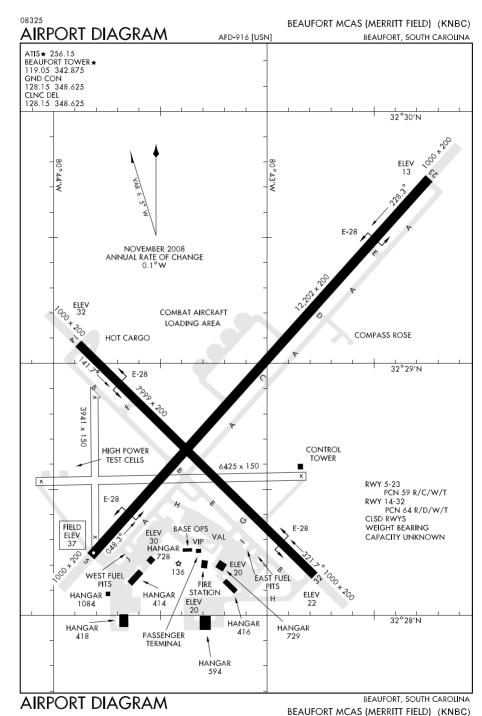
AIRPORT DIAGRAM

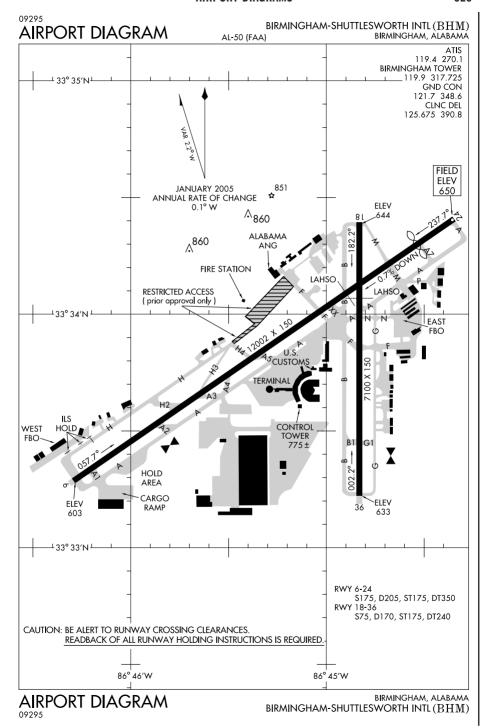
atlanta, georgia atlanta/ hartsfield - Jackson atlanta intl (ATL)

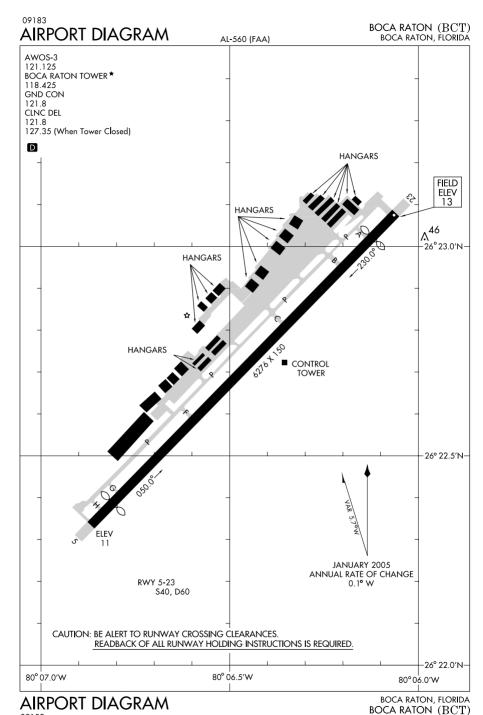


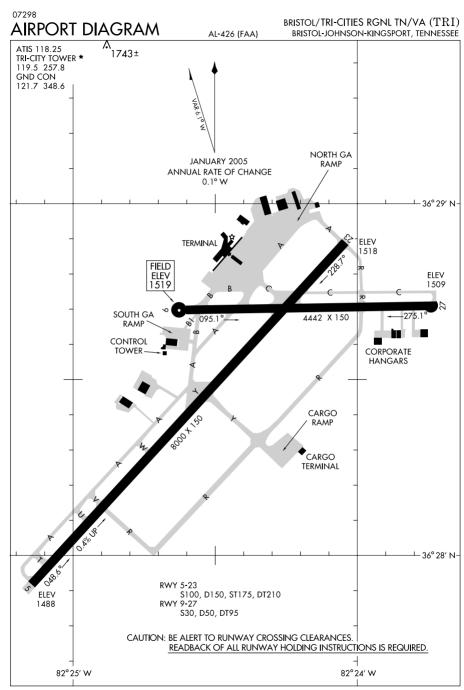


09071

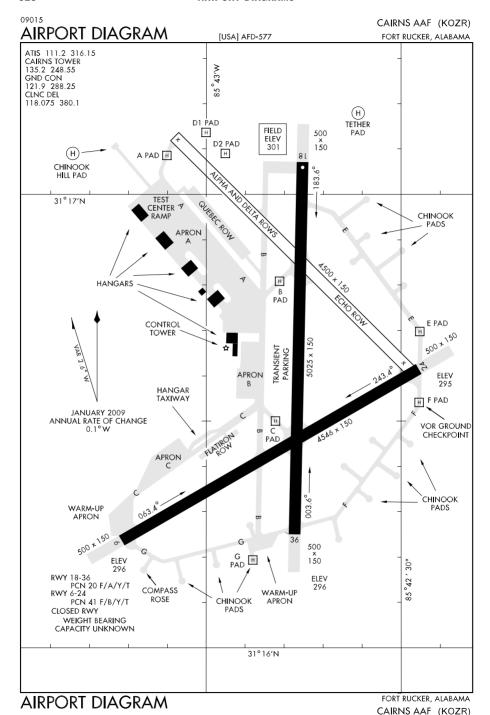


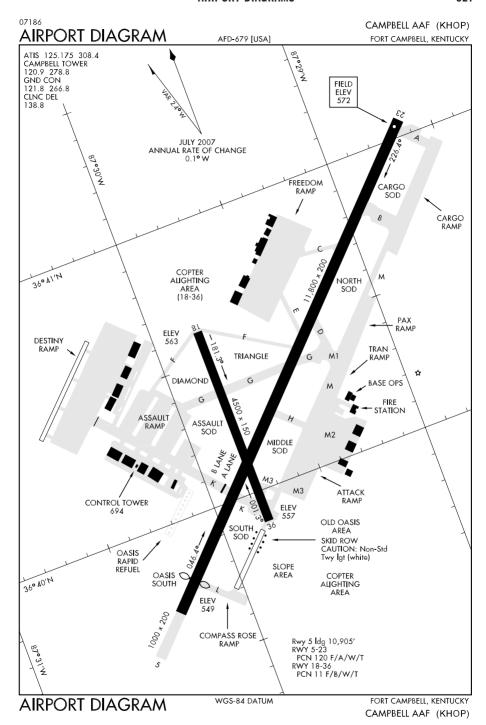


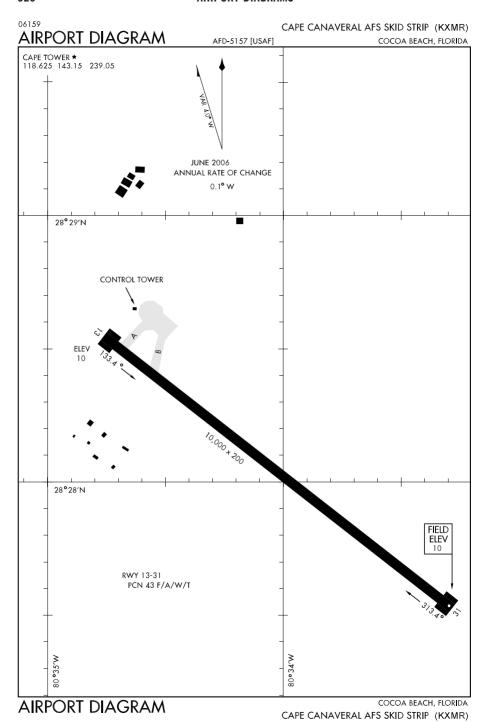


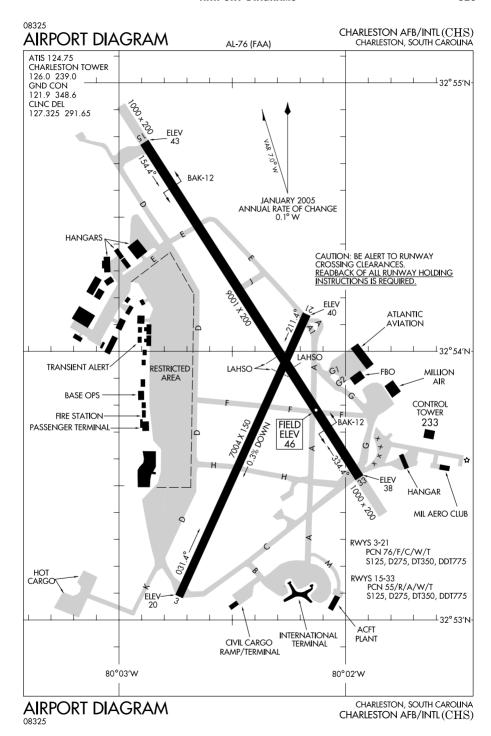


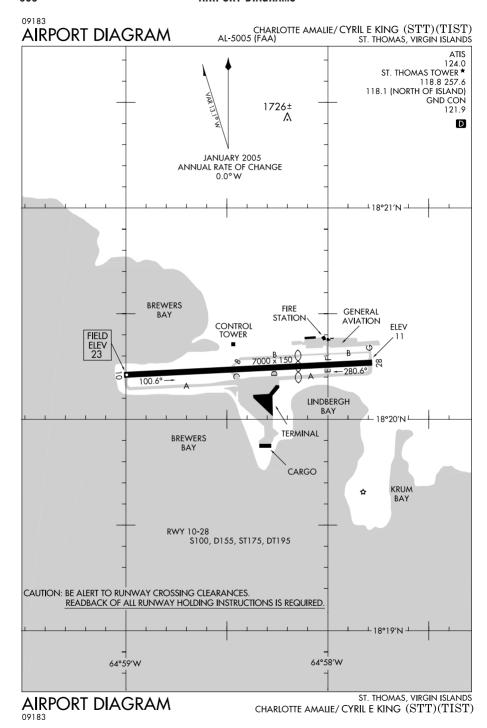
BRISTOL-JOHNSON-KINGSPORT, TENNESSEE BRISTOL/TRI-CITIES RGNL TN/VA $(TR\,I)$

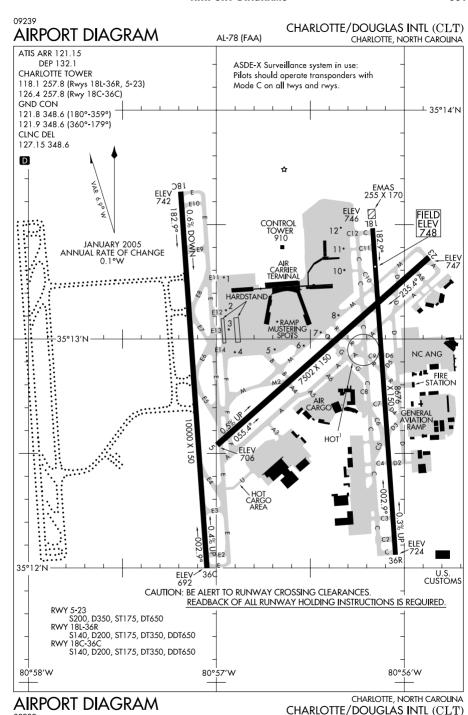


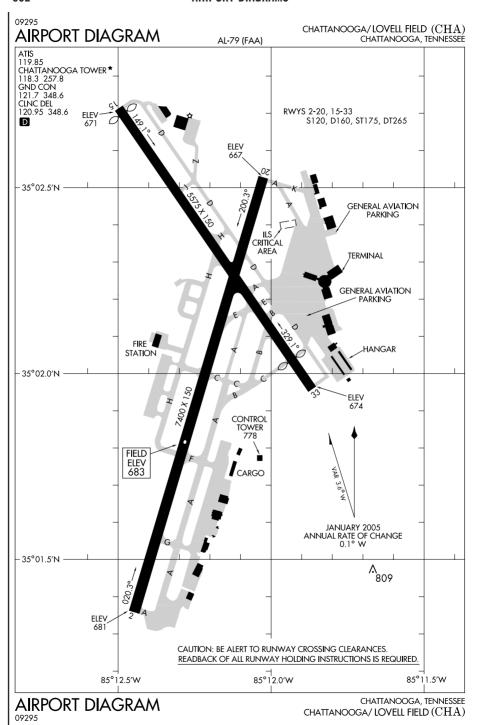


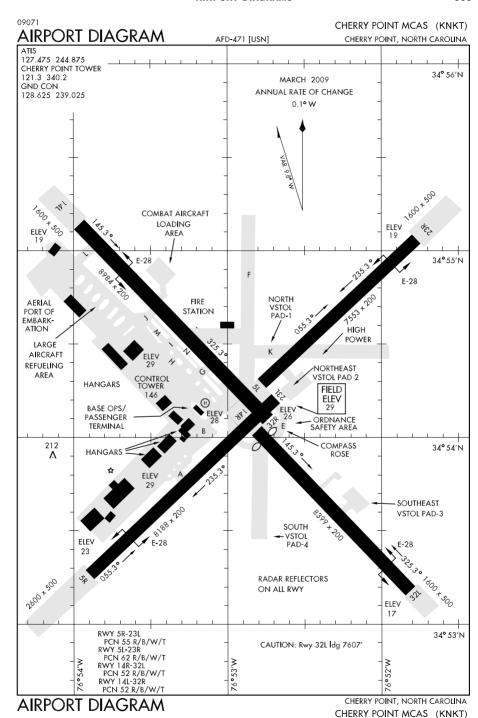


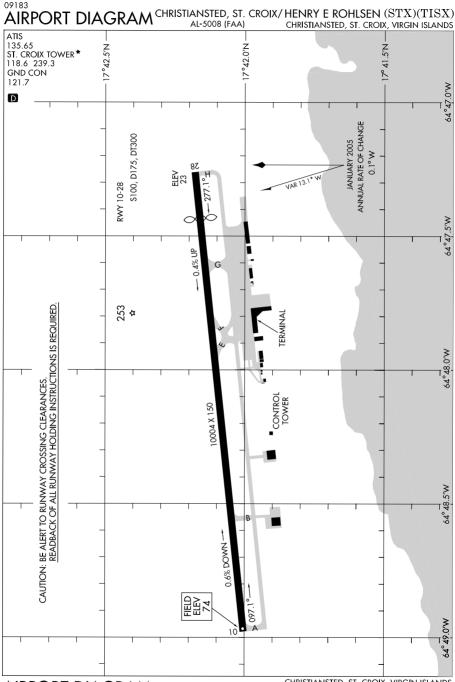




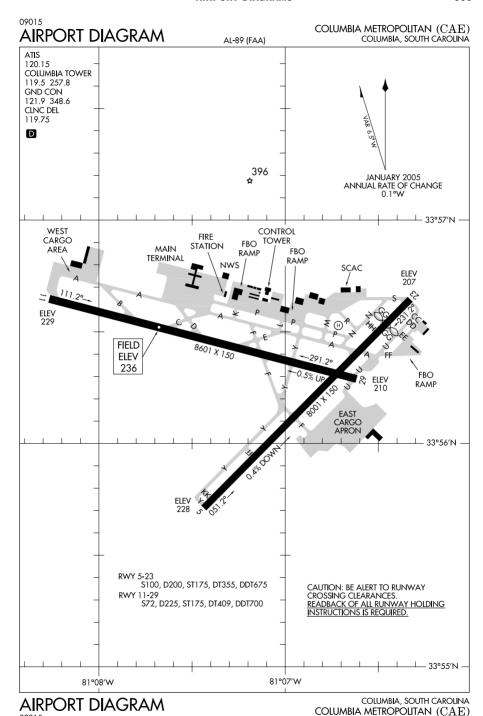


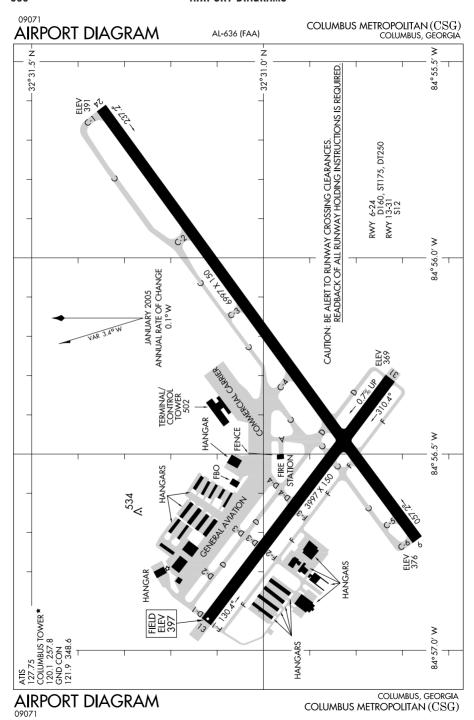




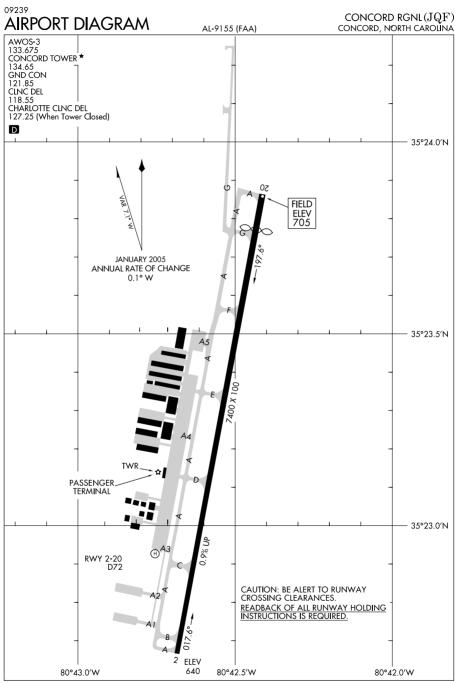


CHRISTIANSTED, ST. CROIX/ HENRY E ROHLSEN (STX)(TISX)

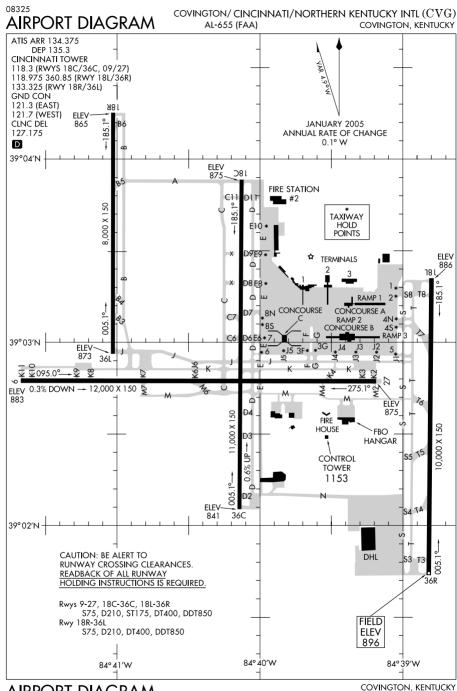




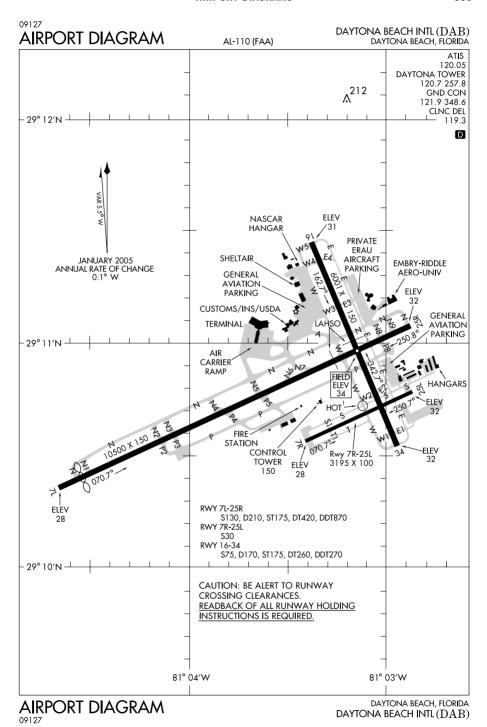
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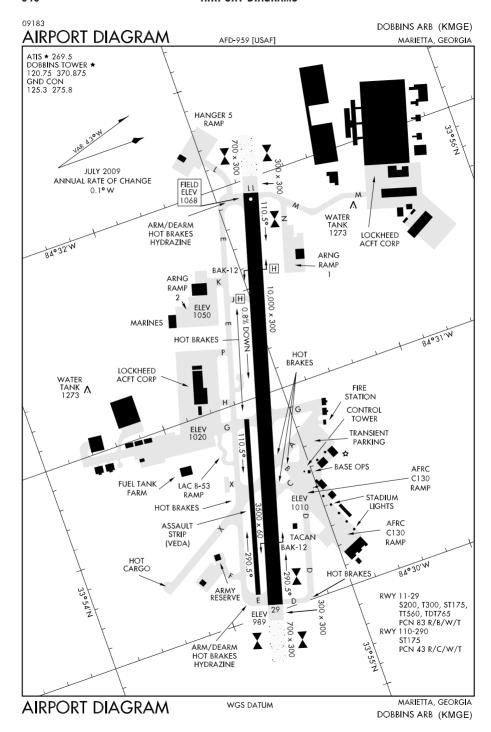


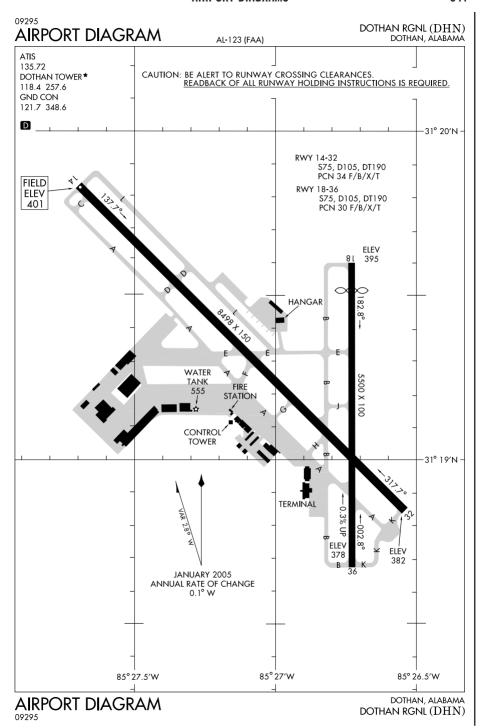
concord, north carolina concord rgnl $(JQF)\,$

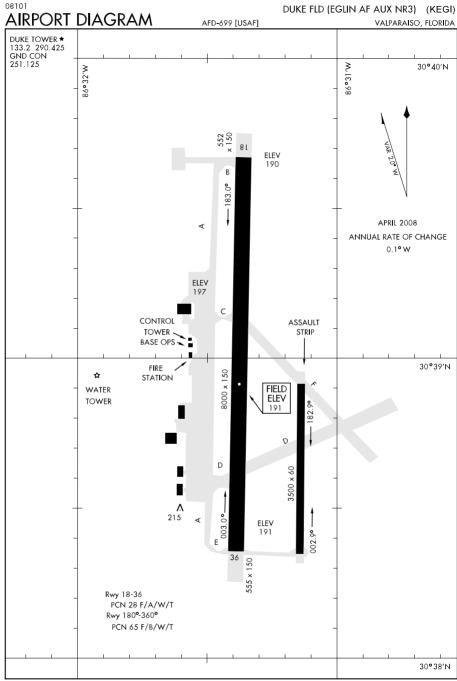


COVINGTON/ CINCINNATI/NORTHERN KENTUCKY INTL (CVG)

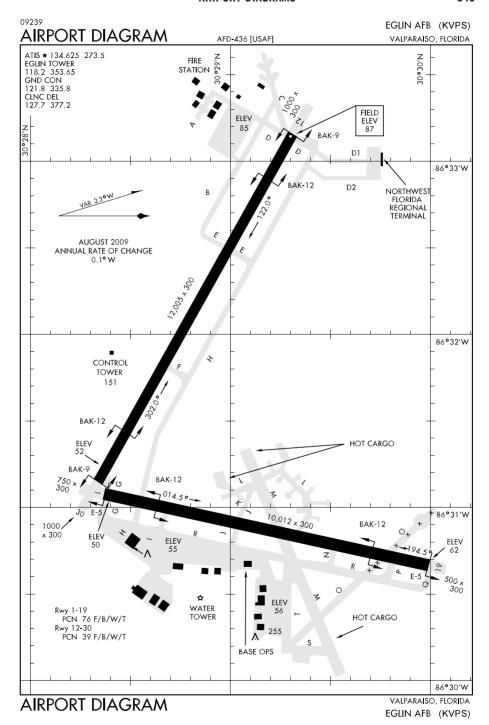


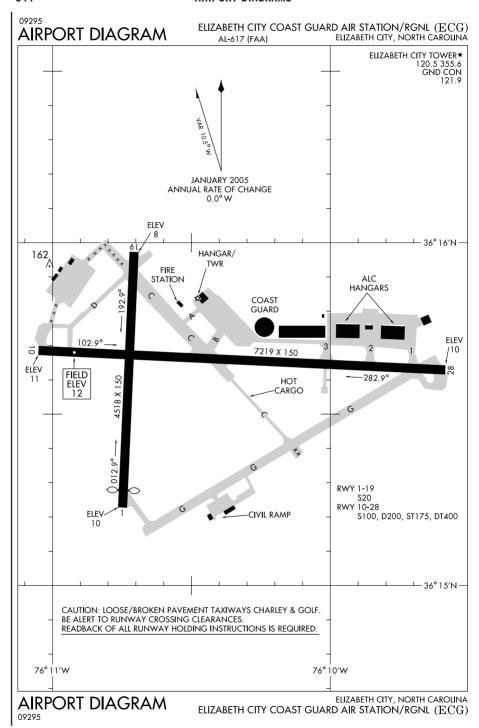




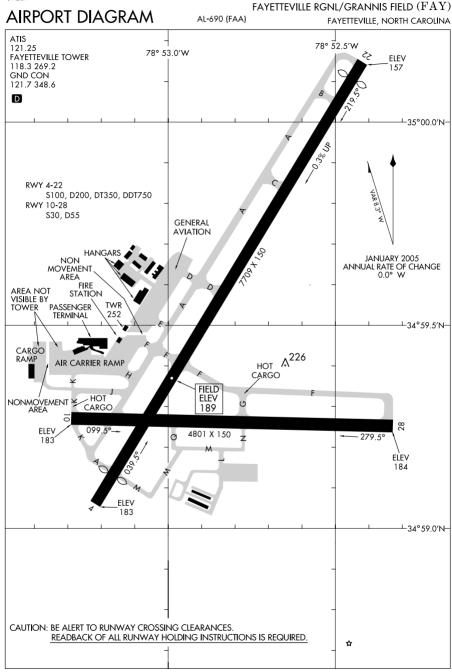


VALPARAISO, FLORIDA DUKE FLD (EGLIN AF AUX NR3) (KEGI)





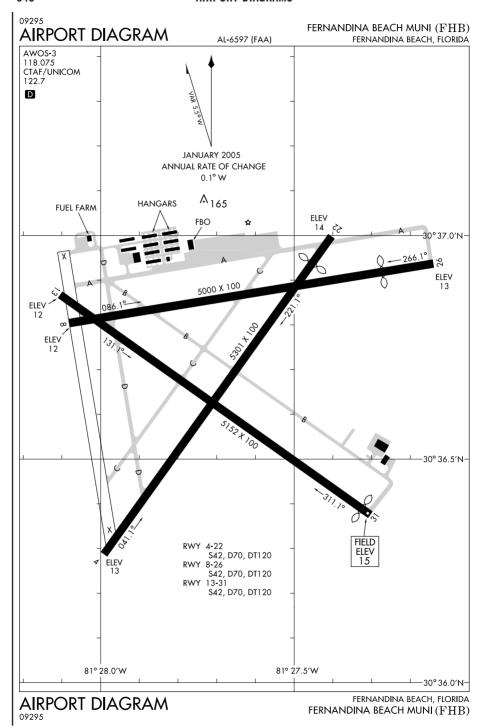
SE, 22 OCT 2009 to 17 DEC 2009



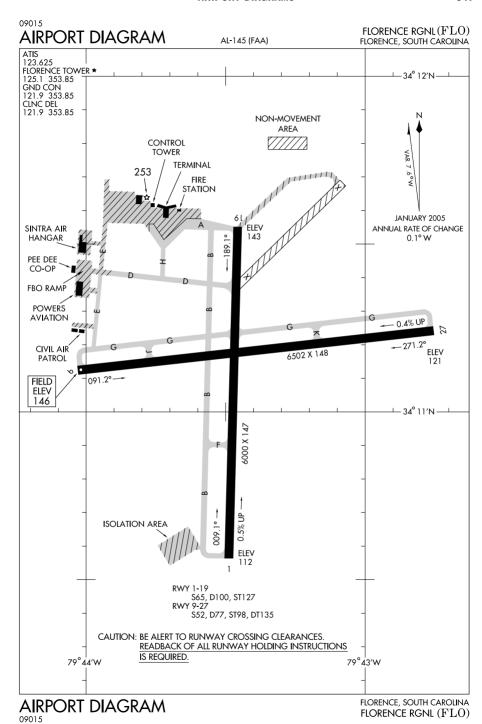
AIRPORT DIAGRAM

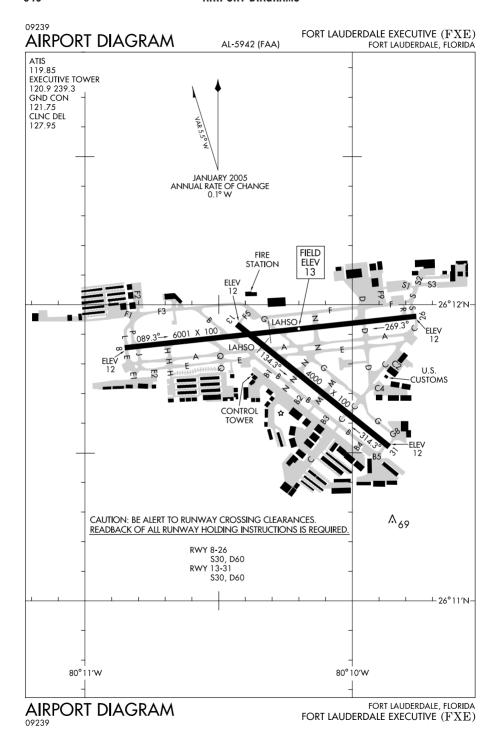
09239

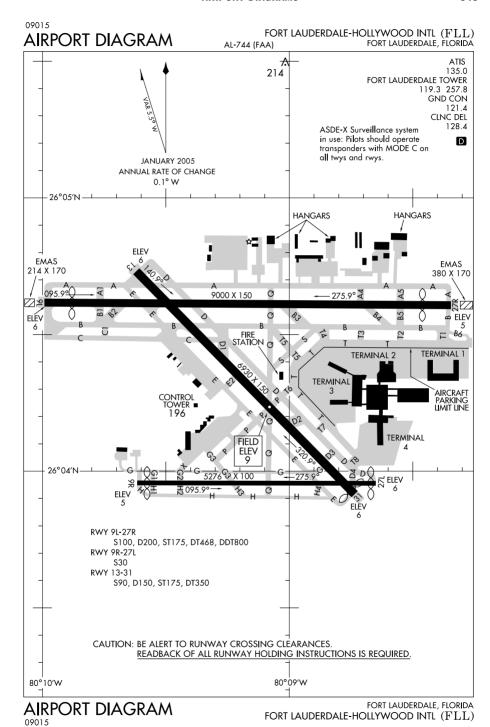
 $\label{eq:fayetteville} \mbox{Fayetteville rgnl/grannis field } (FAY)$

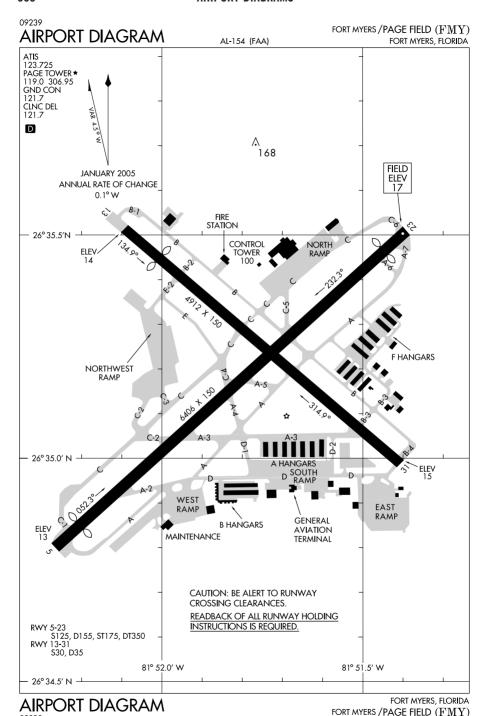


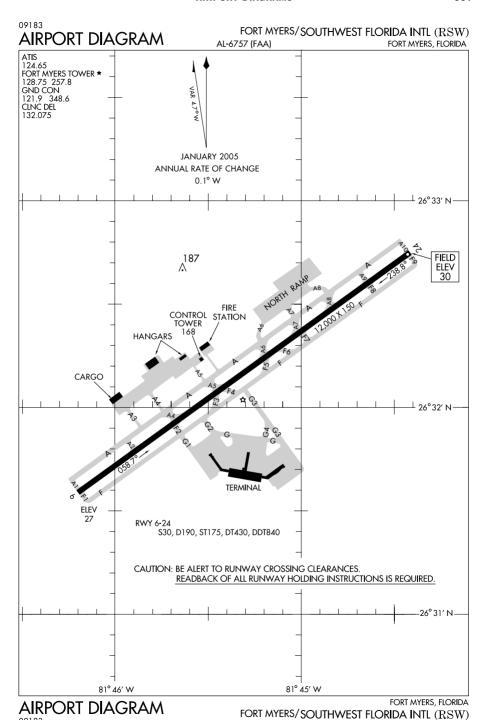
SE, 22 OCT 2009 to 17 DEC 2009

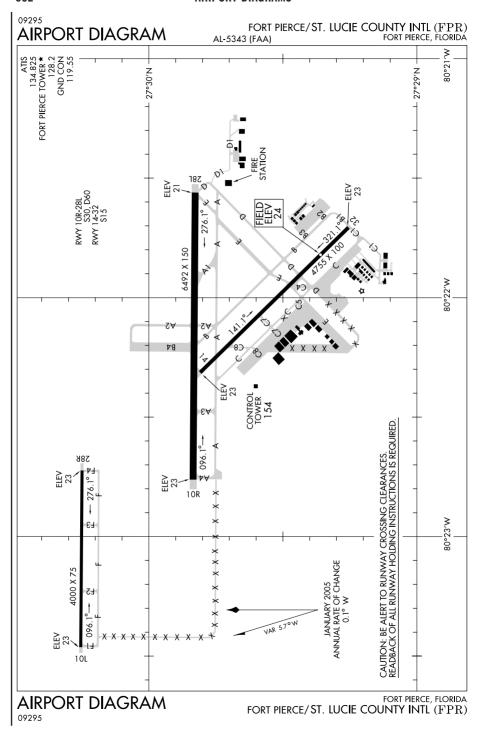




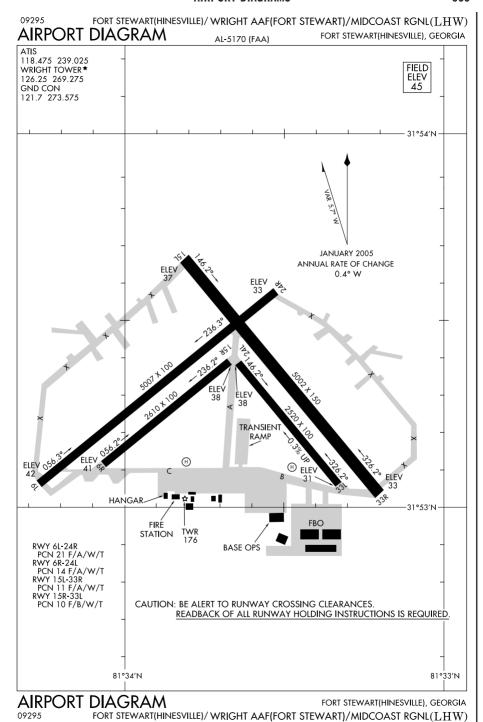


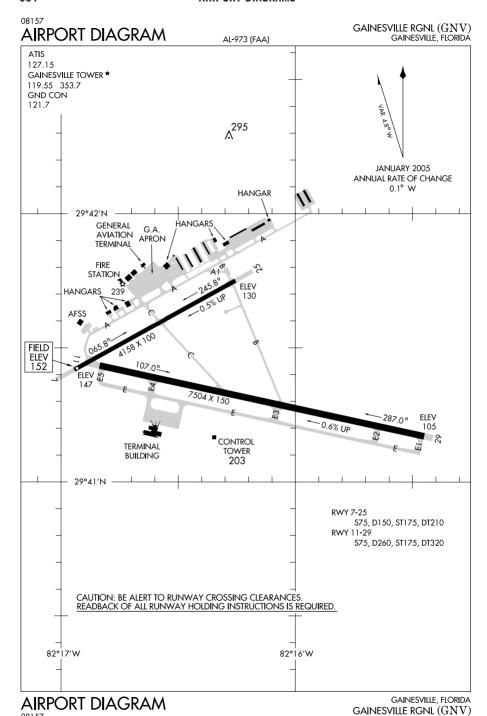


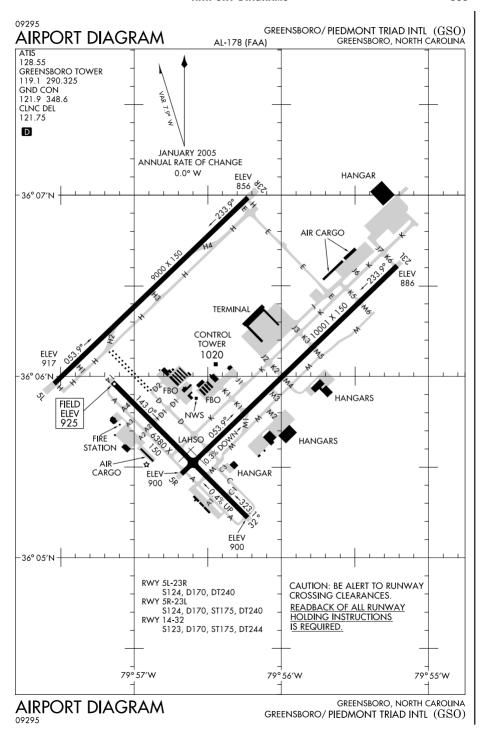


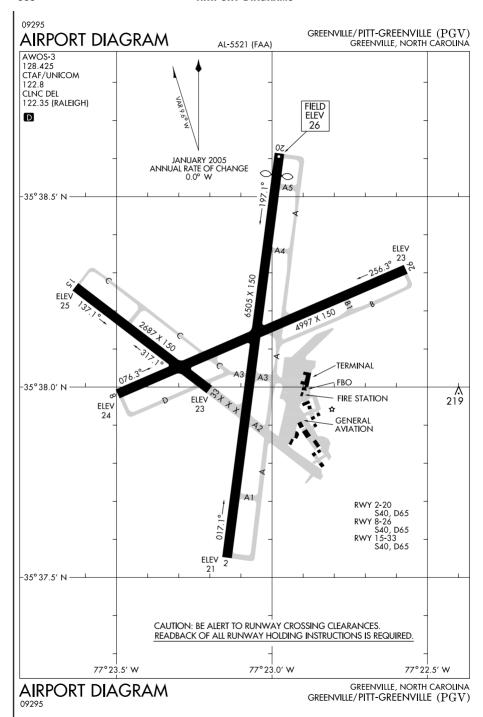


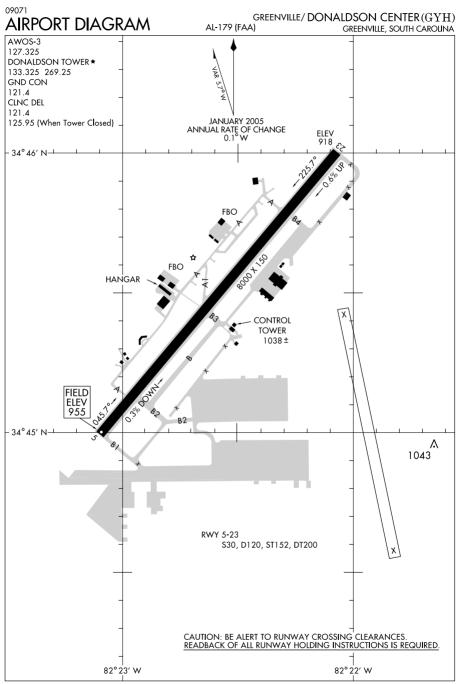
SE, 22 OCT 2009 to 17 DEC 2009



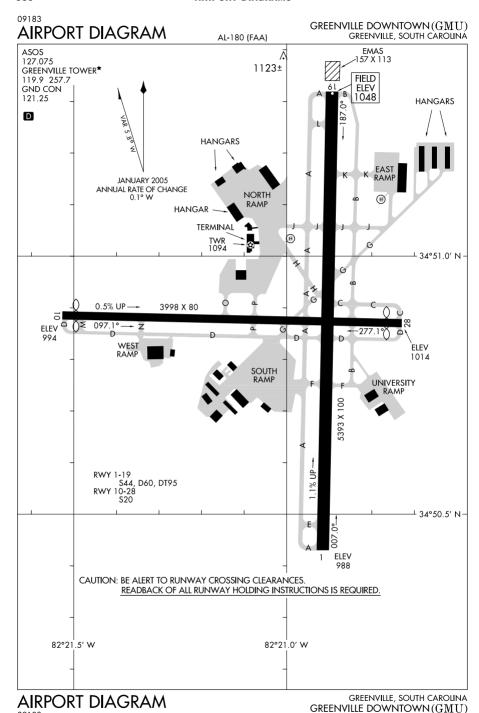




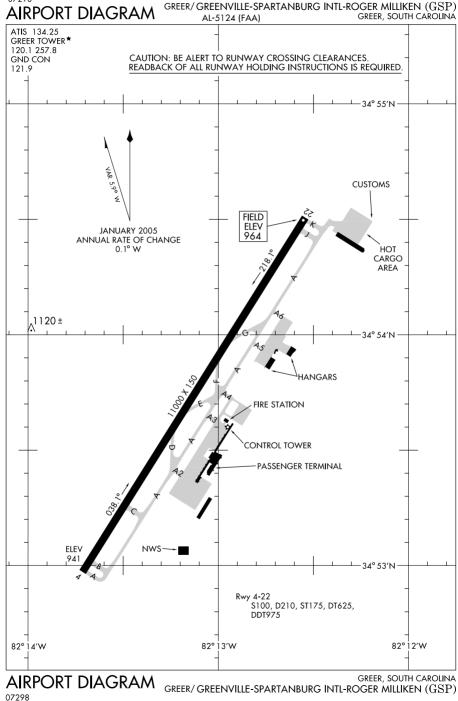


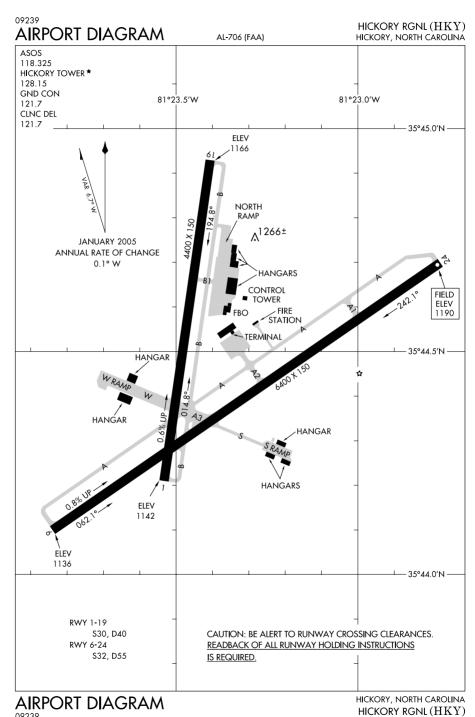


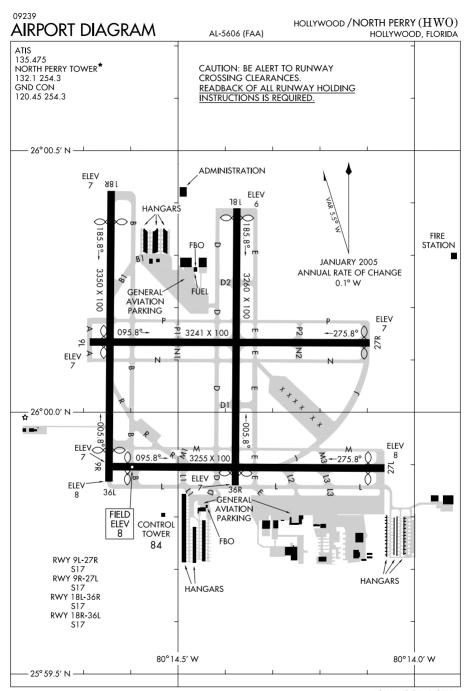
GREENVILLE/ DONALDSON CENTER (GYH)



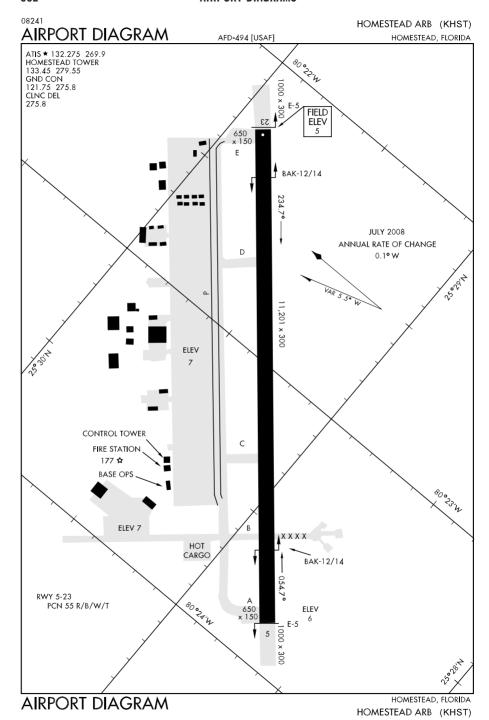
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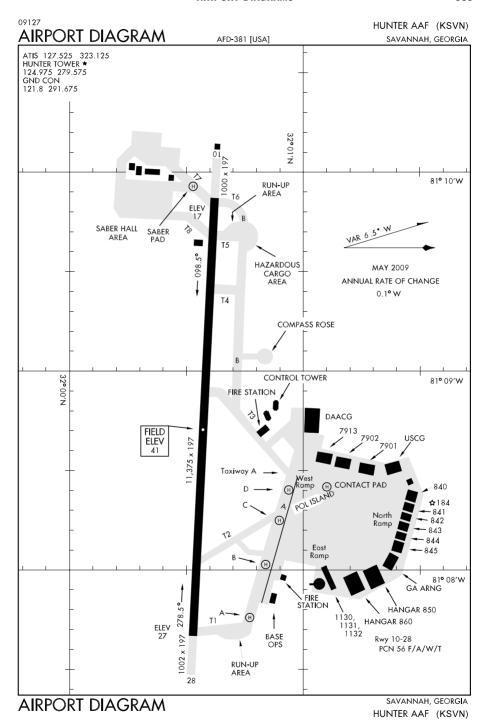


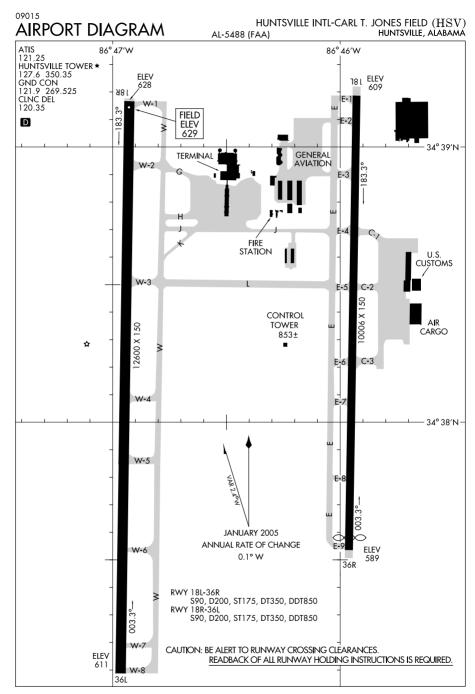




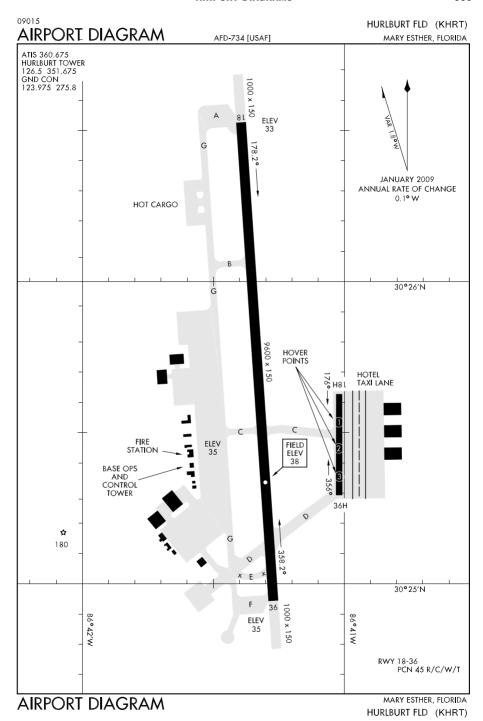
 $\begin{array}{c} \text{HOLLYWOOD, FLORIDA} \\ \text{HOLLYWOOD/NORTH PERRY} \ (HWO) \end{array}$

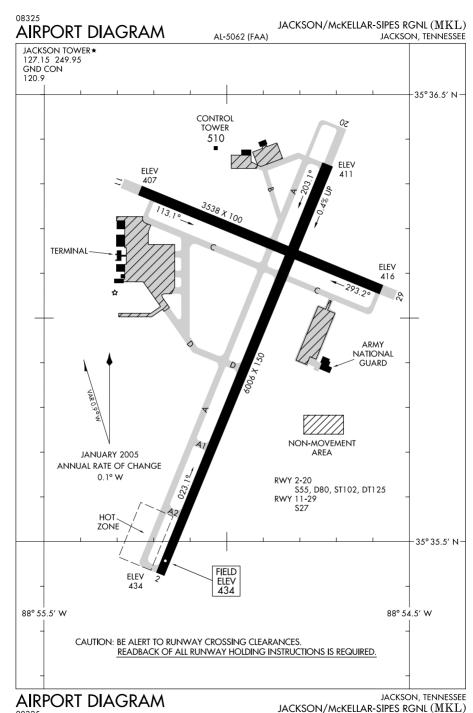


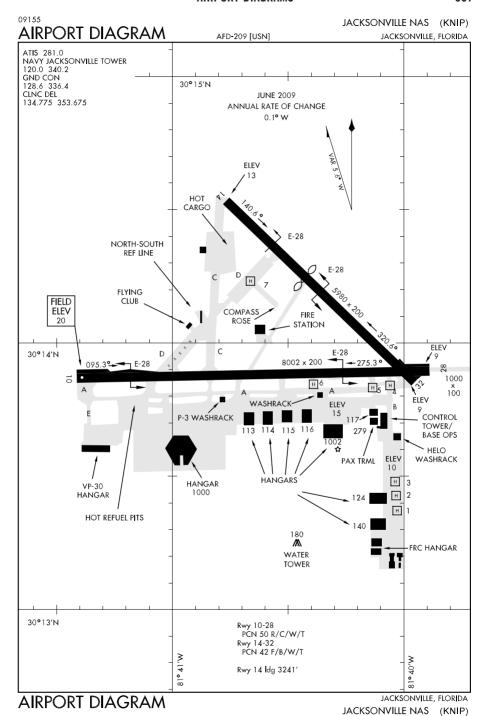


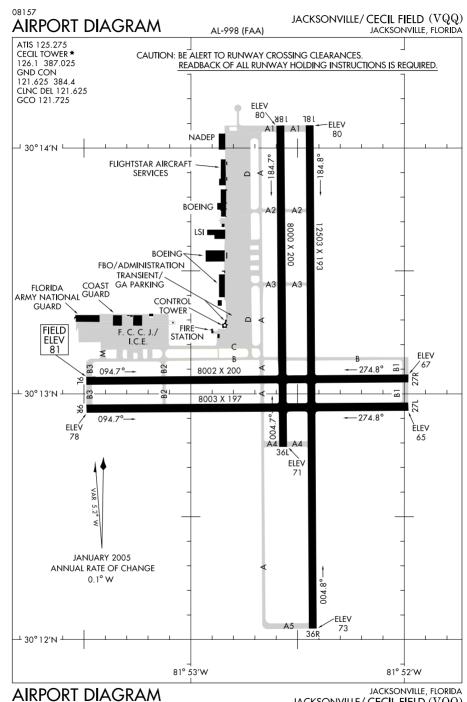


 $\begin{array}{c} \text{HUNTSVILLE, ALABAMA} \\ \text{HUNTSVILLE INTL-CARL T. JONES FIELD } (HSV) \end{array}$

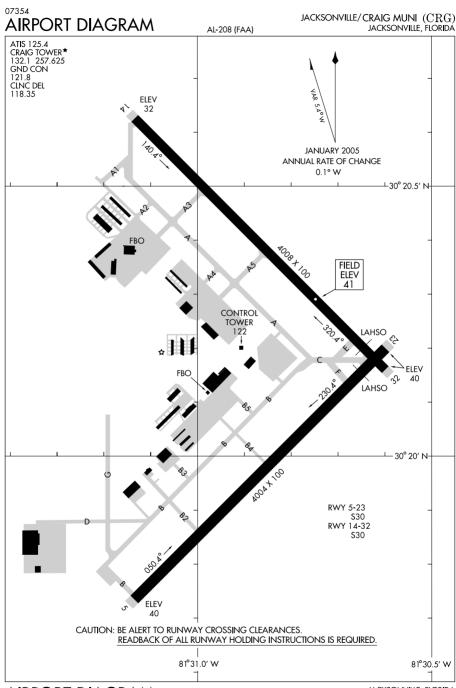




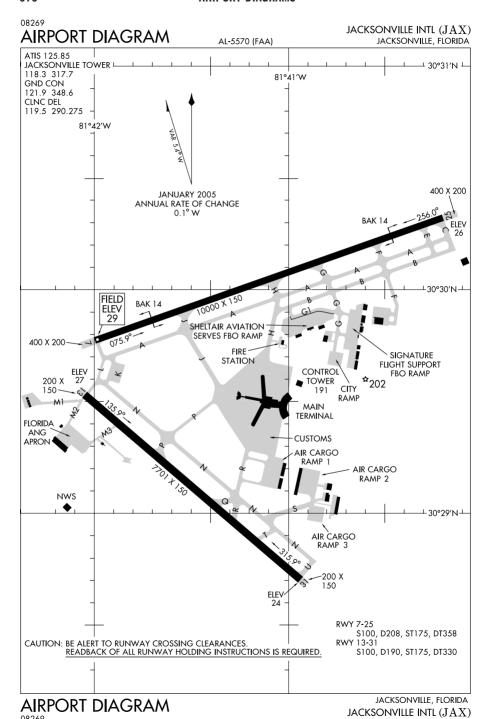


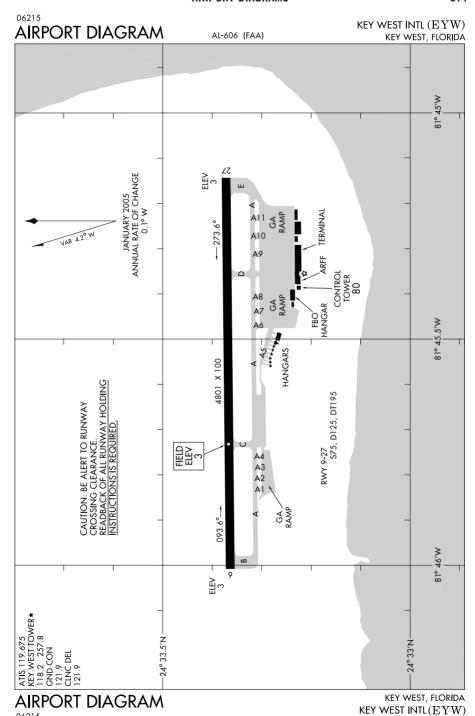


JACKSONVILLE, FLORIDA JACKSONVILLE/ CECIL FIELD (VQQ)

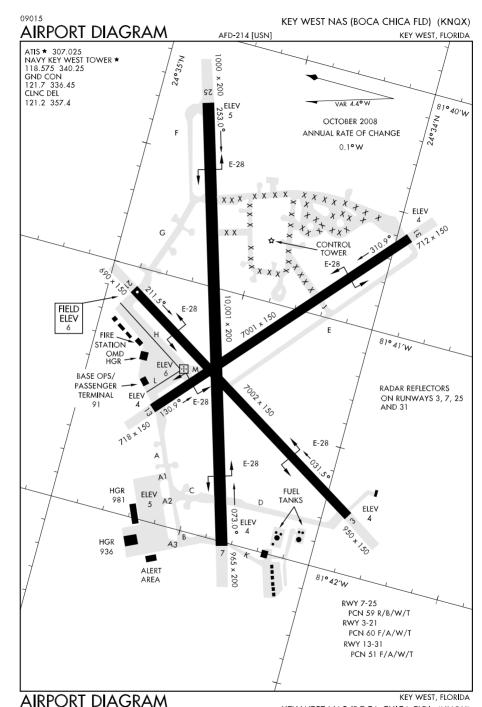


Jacksonville, florida Jacksonville/ \mbox{CRAIG} muni (CRG)

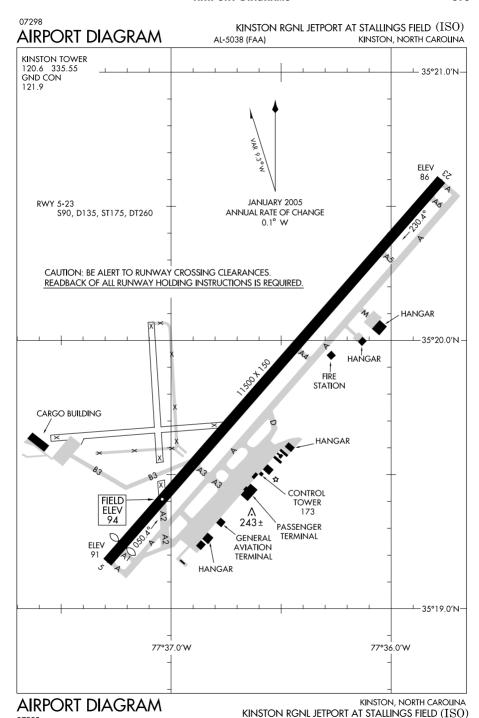




06215

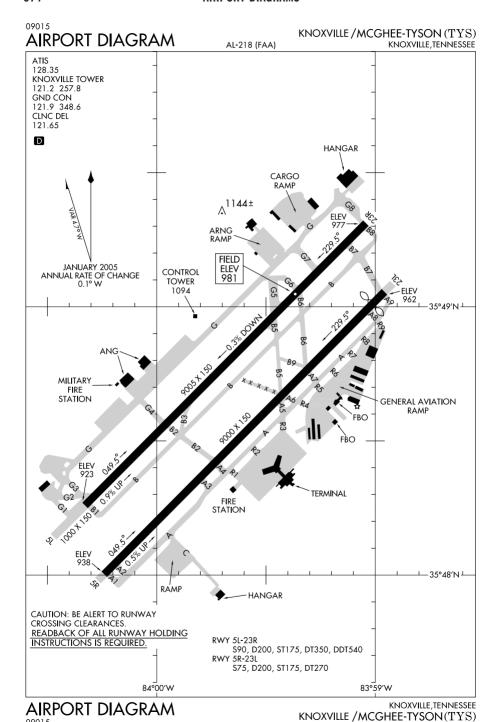


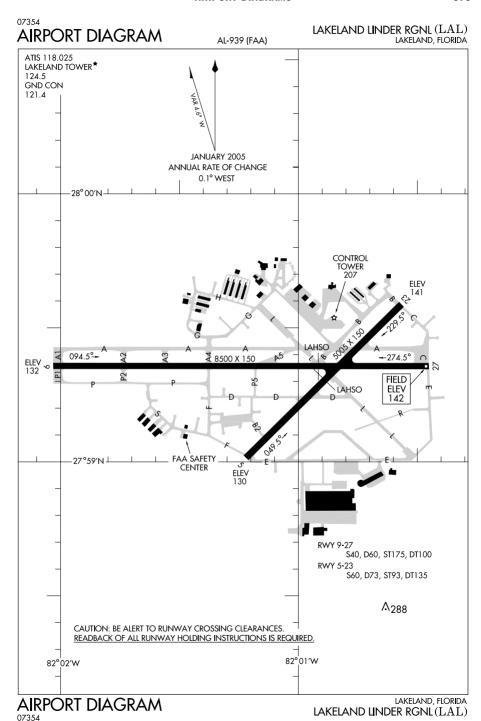
KEY WEST NAS (BOCA CHICA FLD) (KNQX)

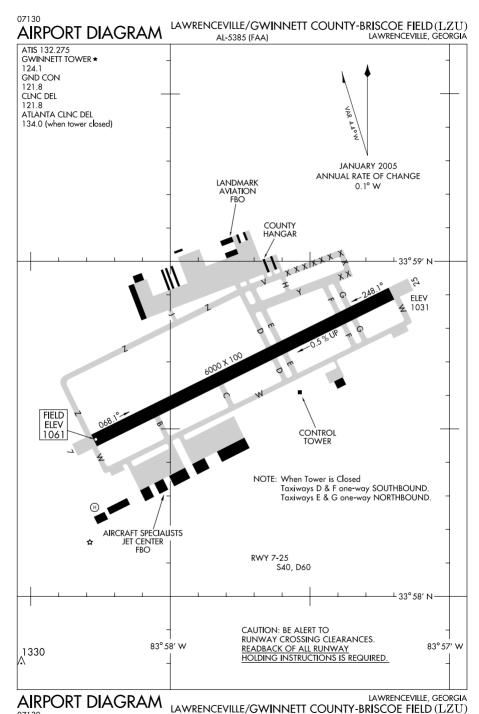


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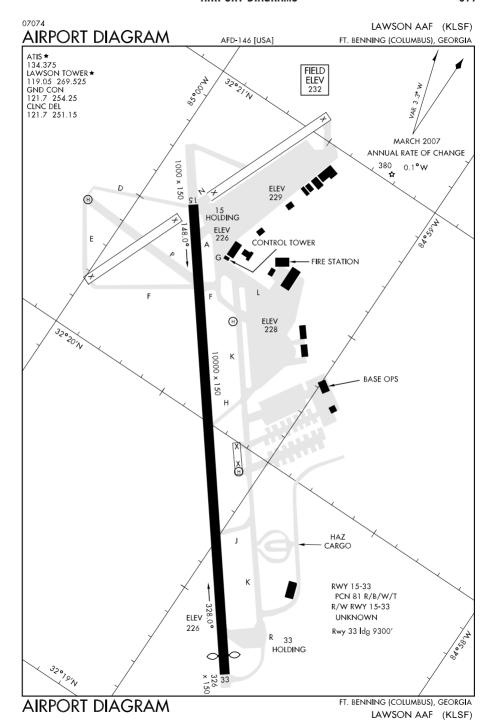
07298

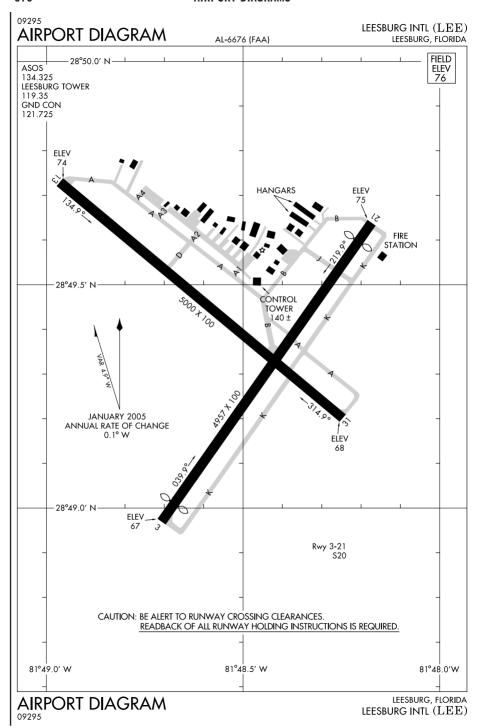




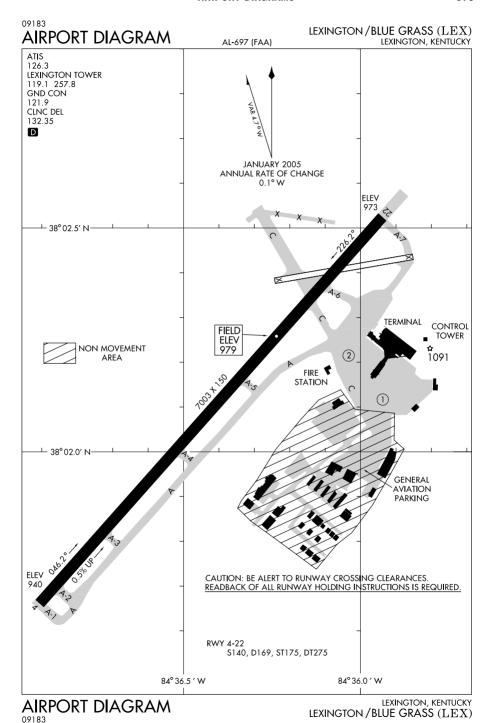


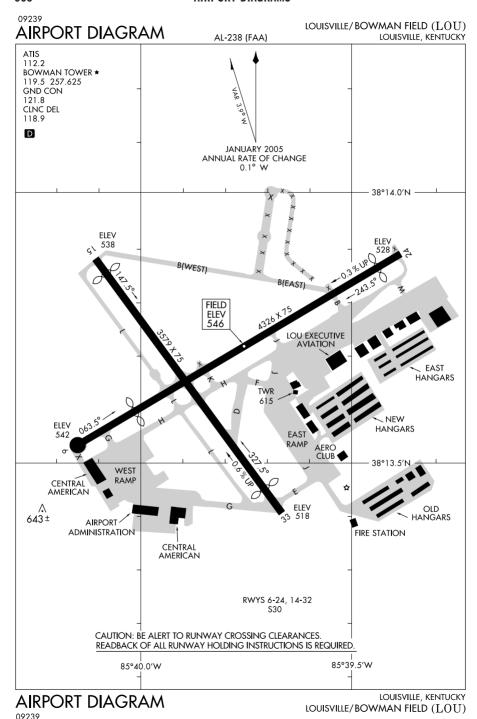
17130 DAWKENCEVILLE/GWINNETT COOKIT-BRISCOE TIELD (112

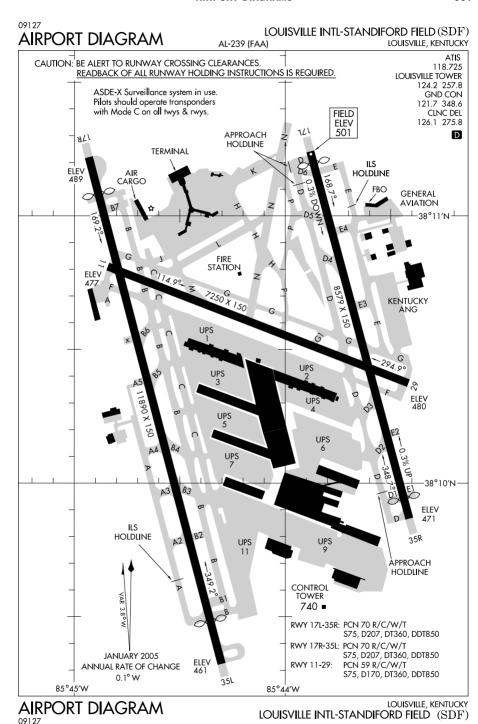


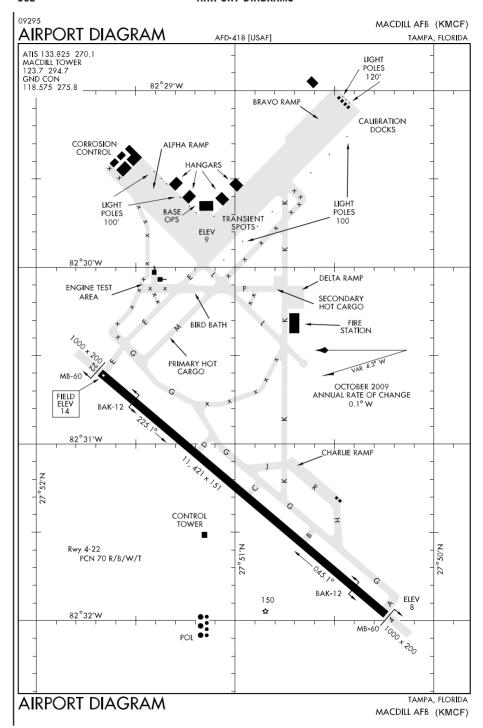


SE, 22 OCT 2009 to 17 DEC 2009

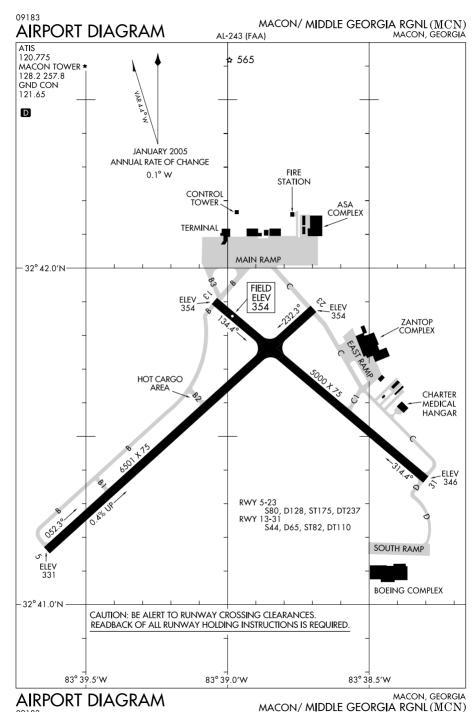




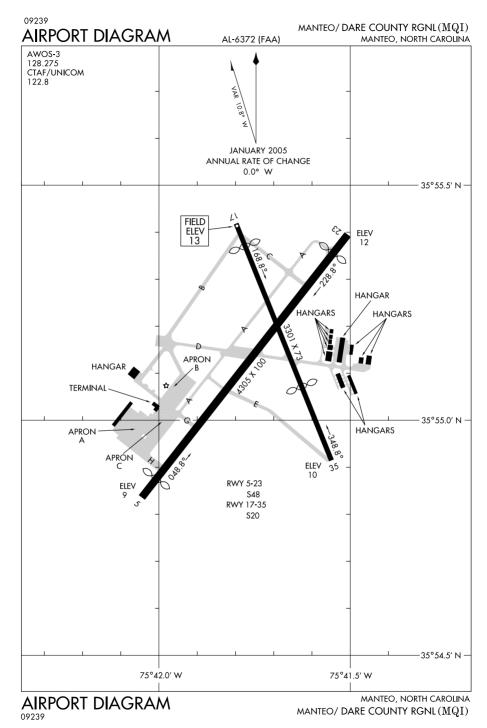


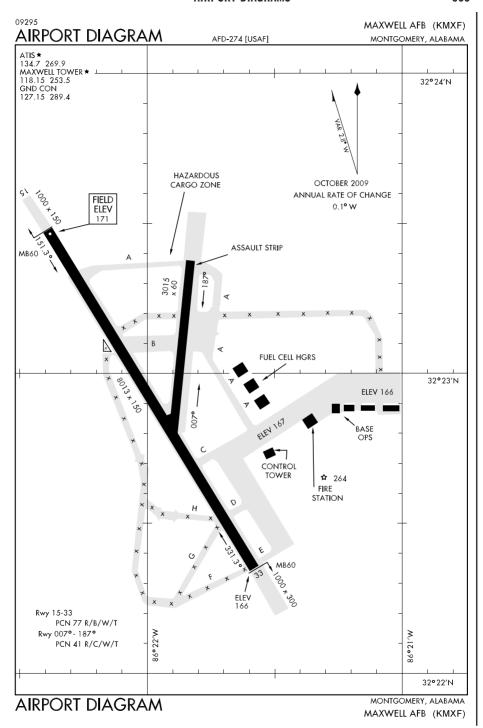


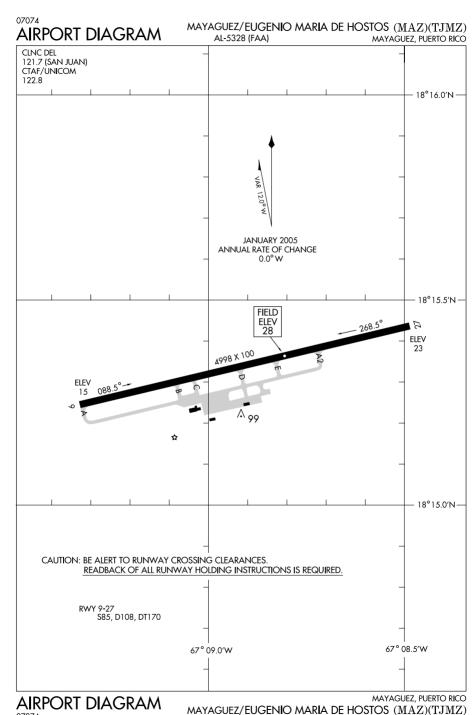
SE, 22 OCT 2009 to 17 DEC 2009

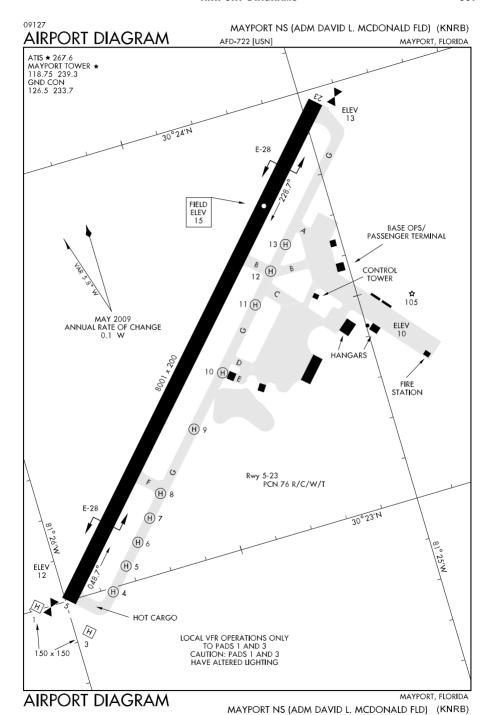


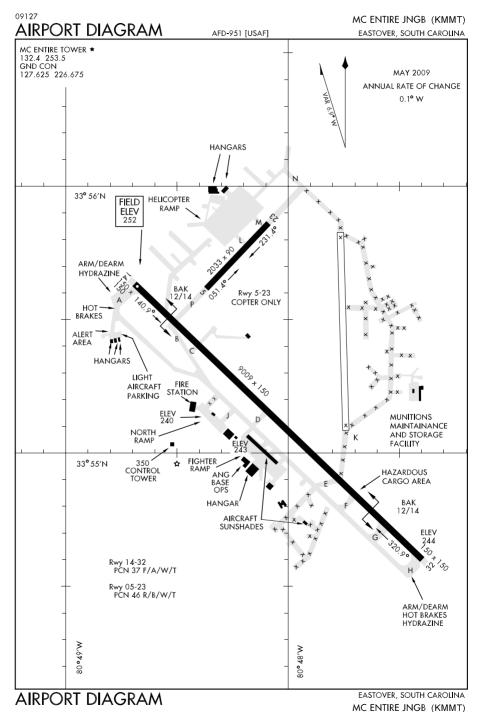
09183 MACON/ MIDDLE GEORGIA

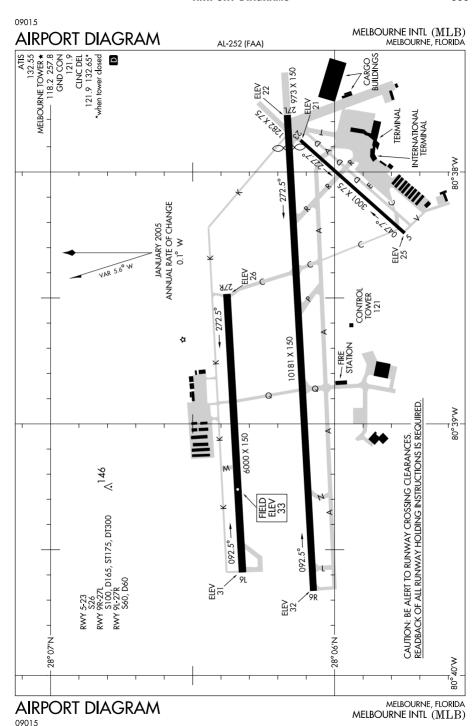


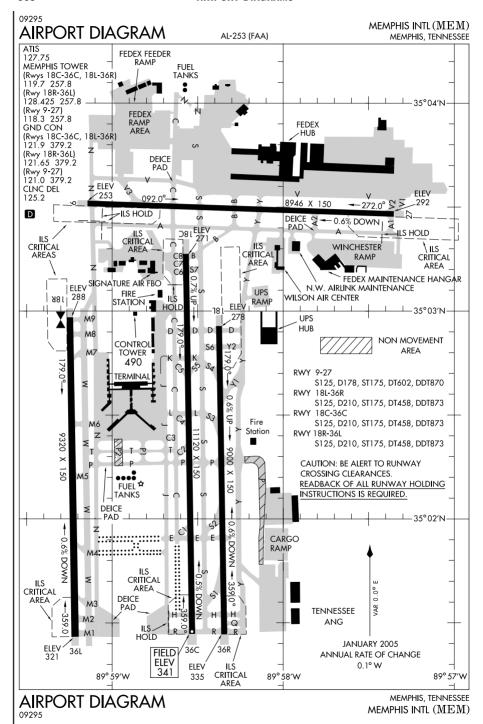


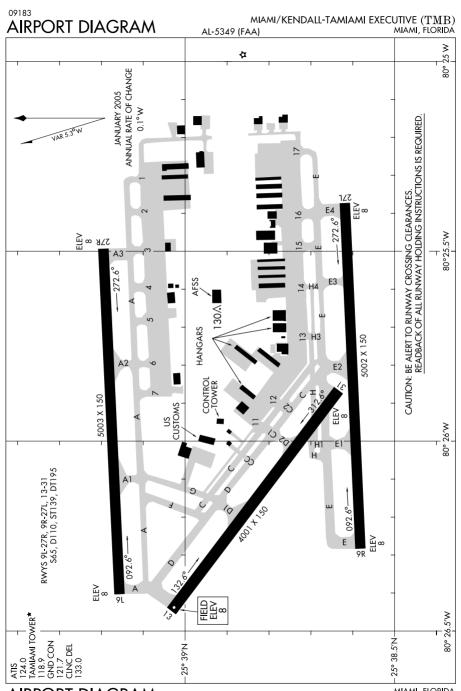






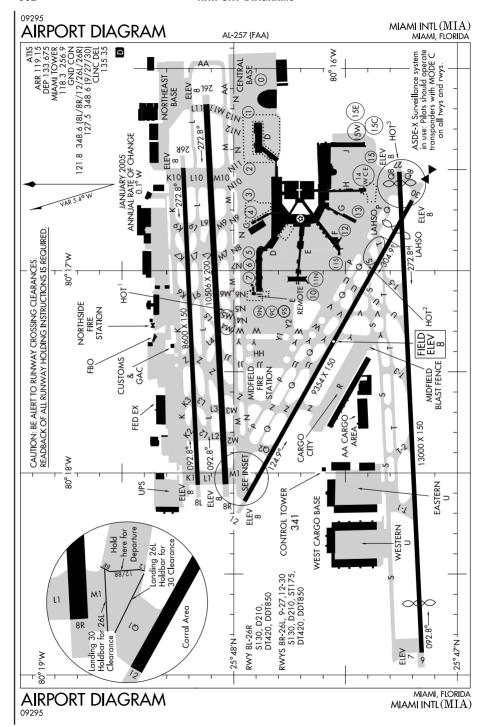




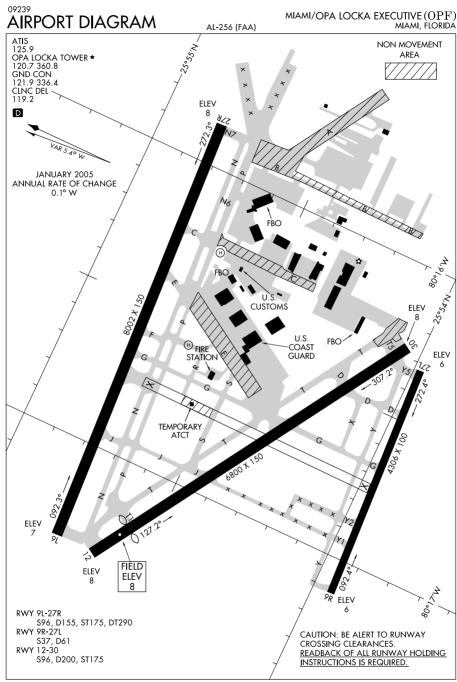


AIRPORT DIAGRAM

 $\begin{array}{c} \text{MIAMI, FLORIDA} \\ \text{MIAMI/ KENDALL-TAMIAMI EXECUTIVE } \end{array}$

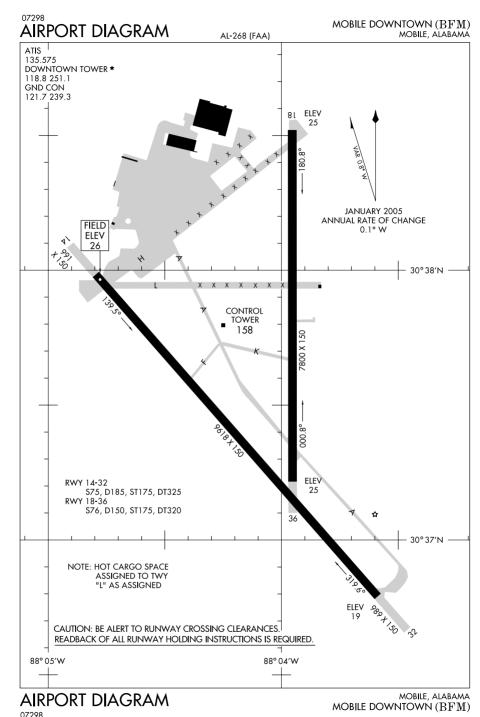


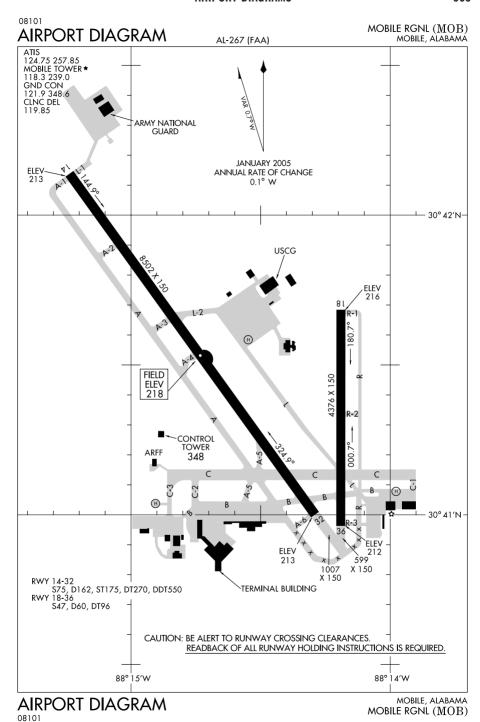
SE, 22 OCT 2009 to 17 DEC 2009

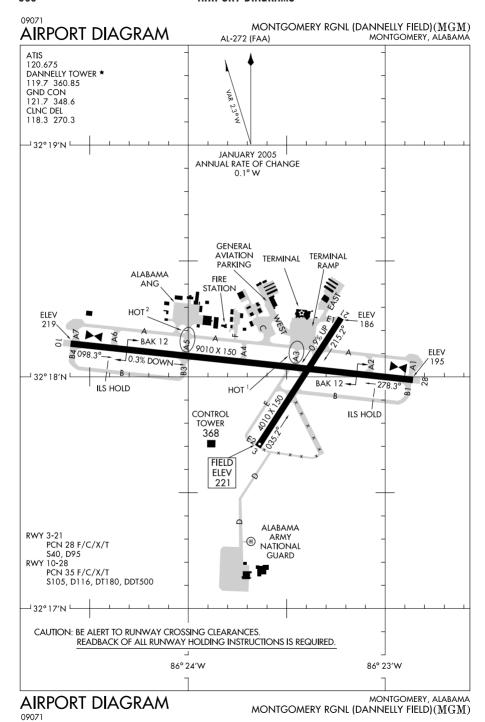


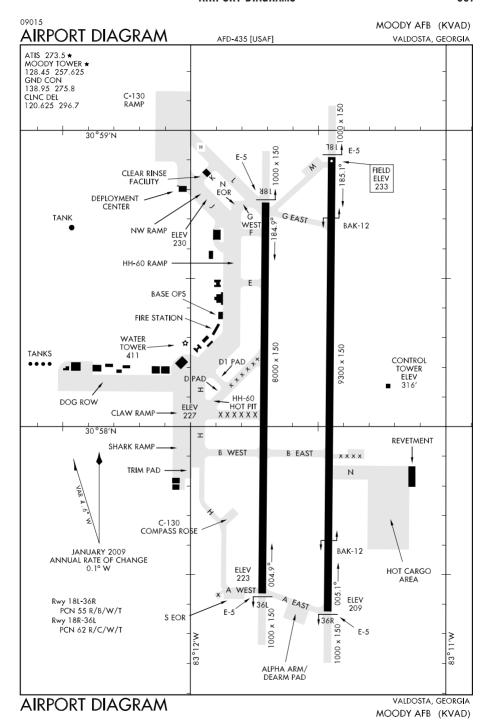
AIRPORT DIAGRAM

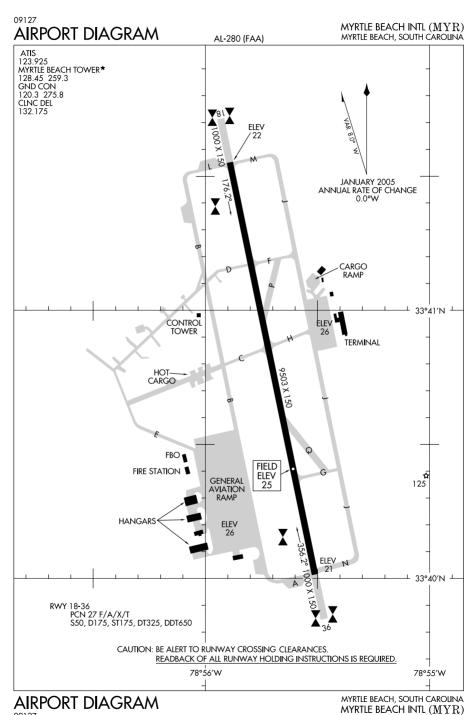
 $\begin{array}{c} \text{MIAMI, FLORIDA} \\ \text{MIAMI/OPA LOCKA EXECUTIVE}(OPF) \end{array}$

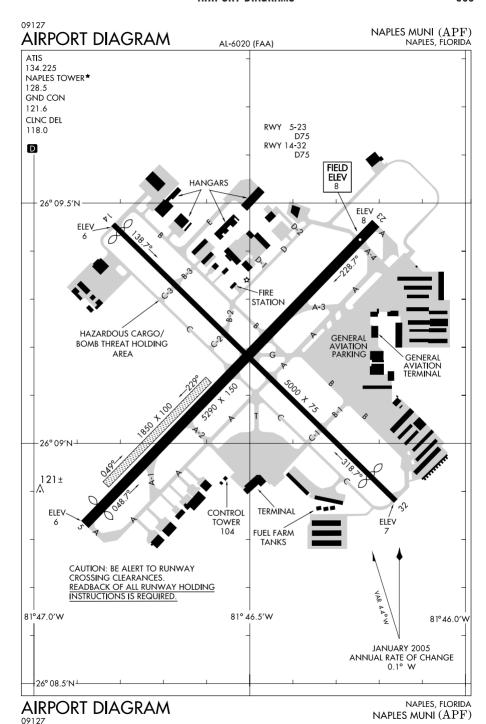


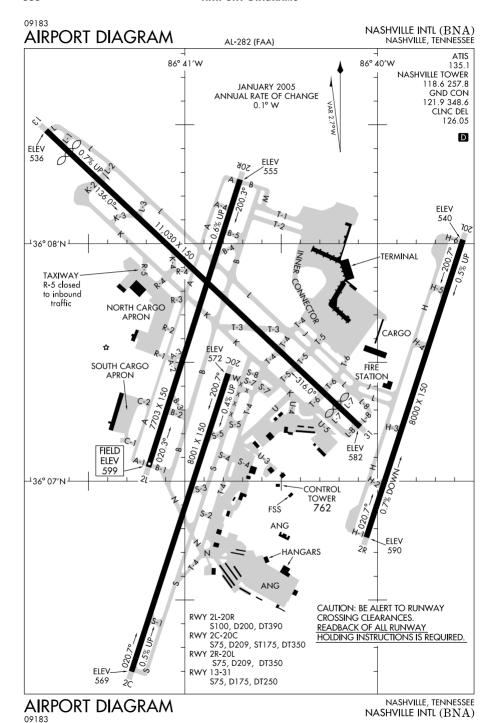


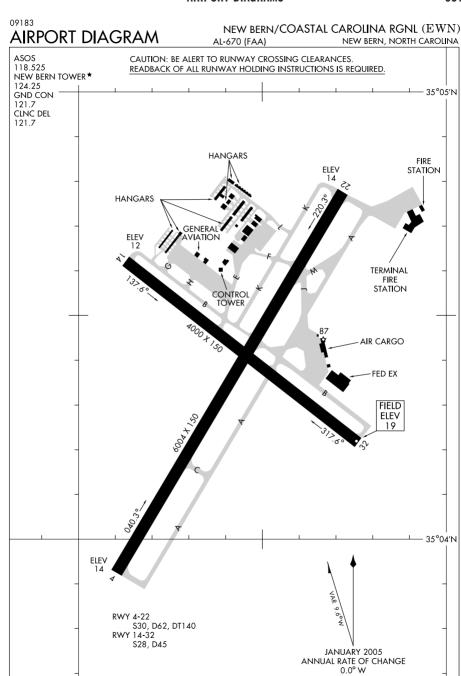








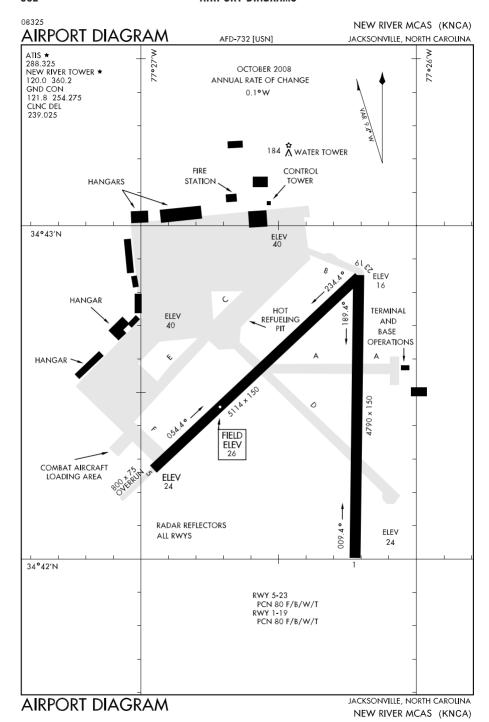


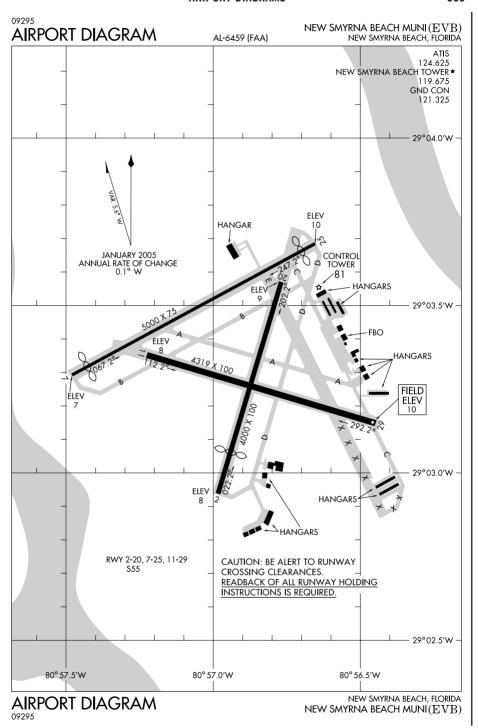


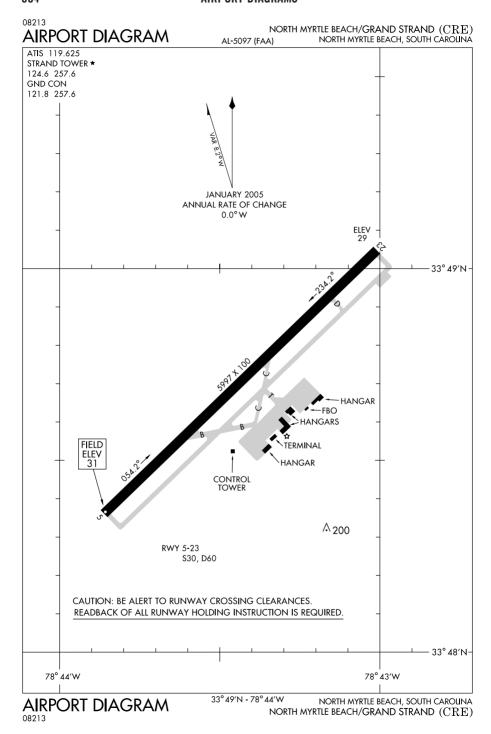
AIRPORT DIAGRAM

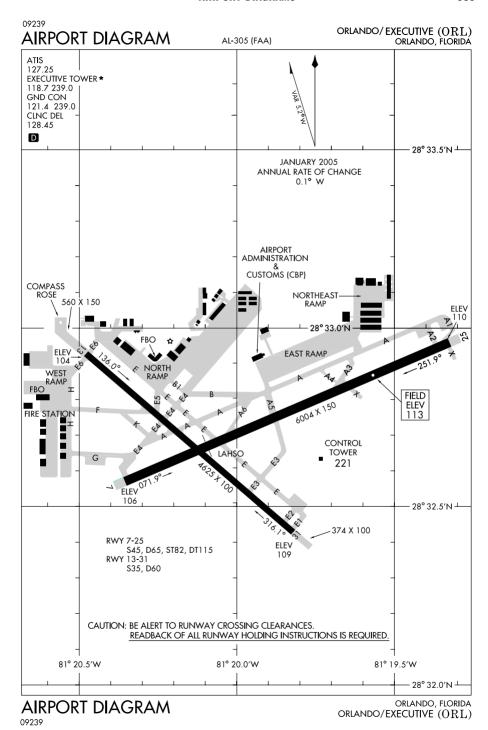
NEW BERN/COASTAL CAROLINA RGNL (EWN)

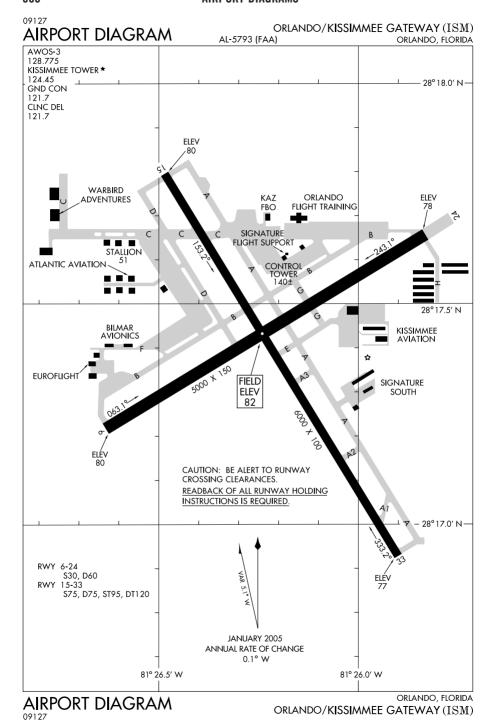
77°02′W

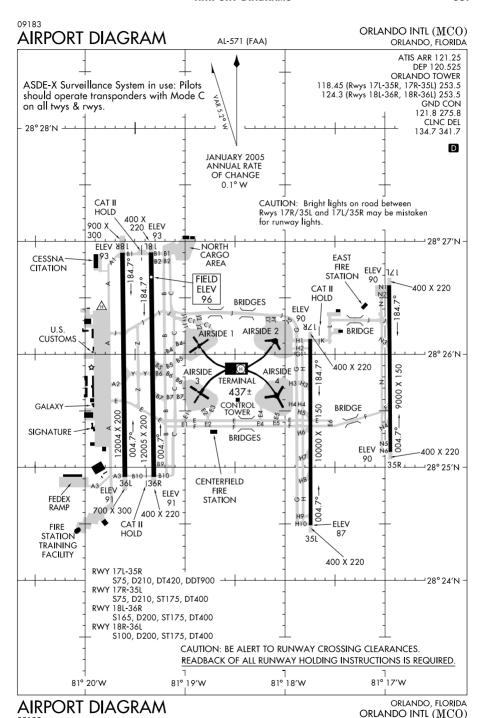


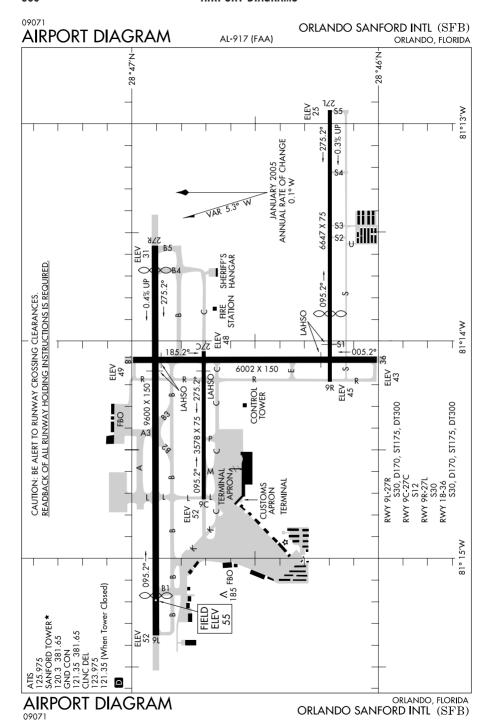


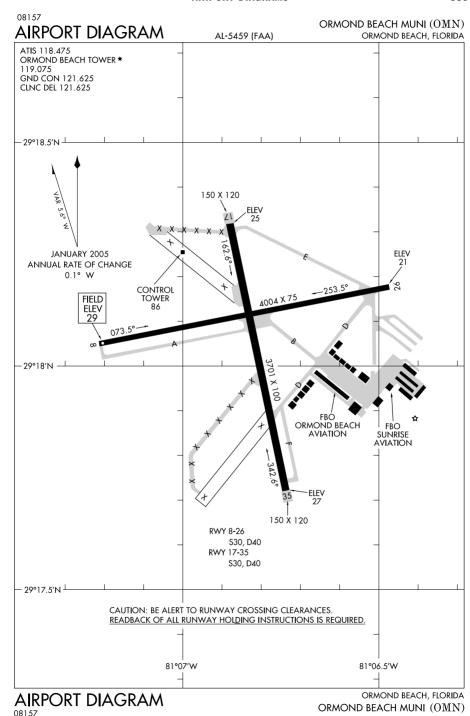


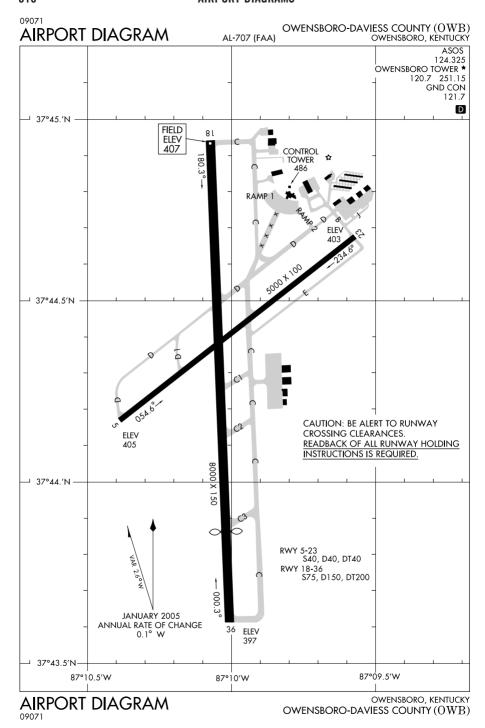


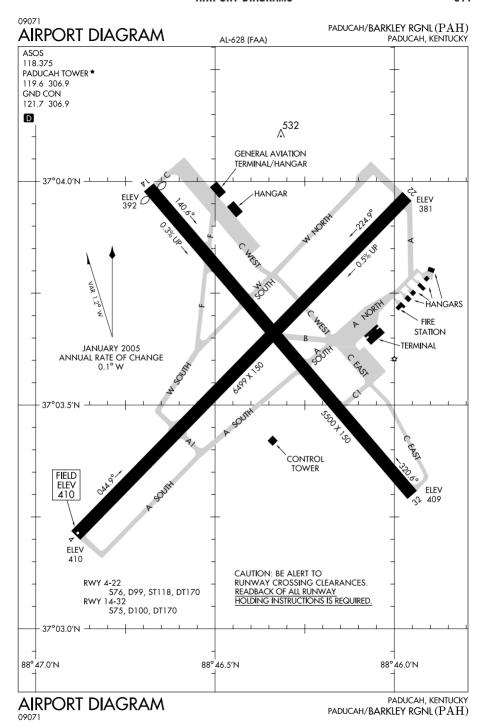


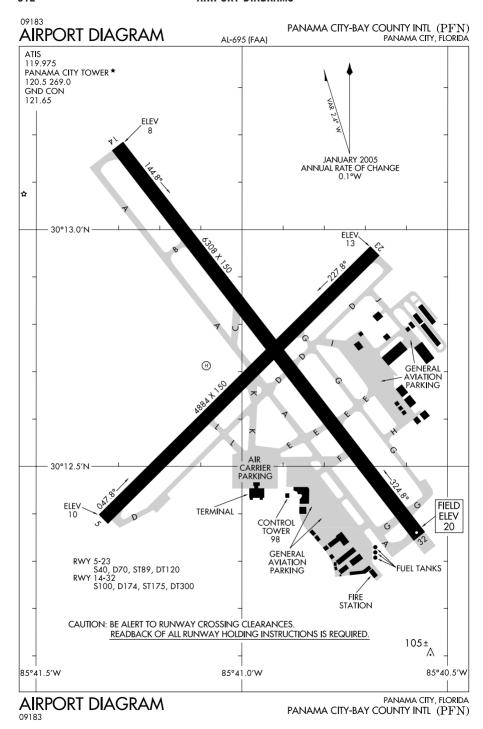




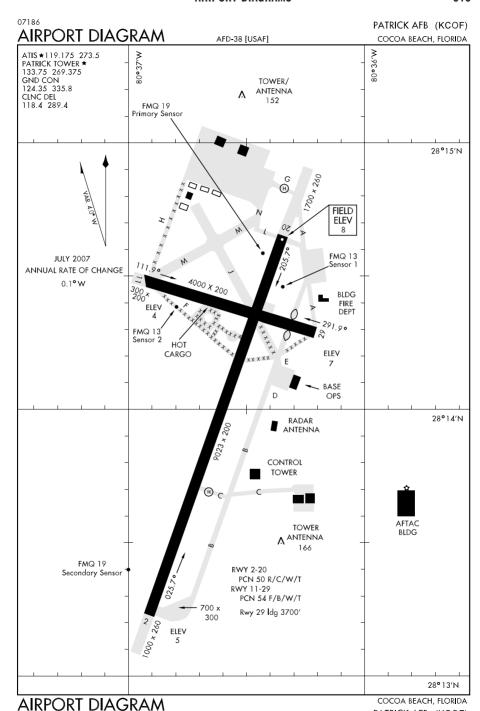


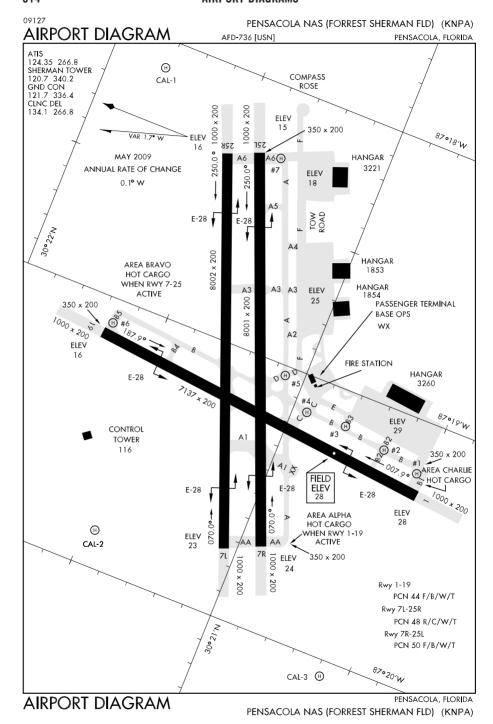




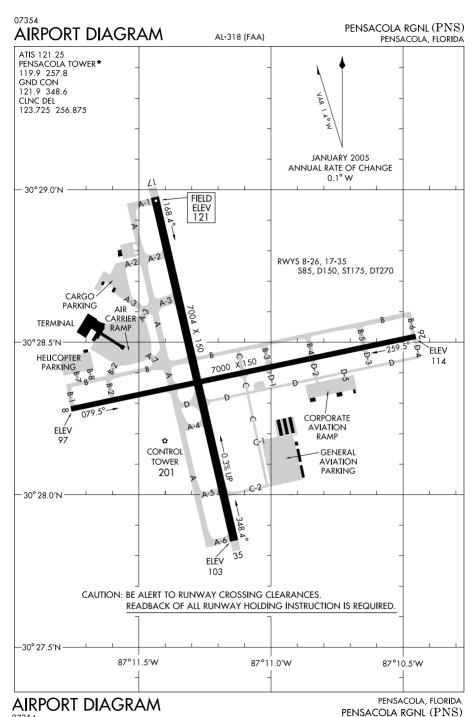


PATRICK AFB (KCOF)

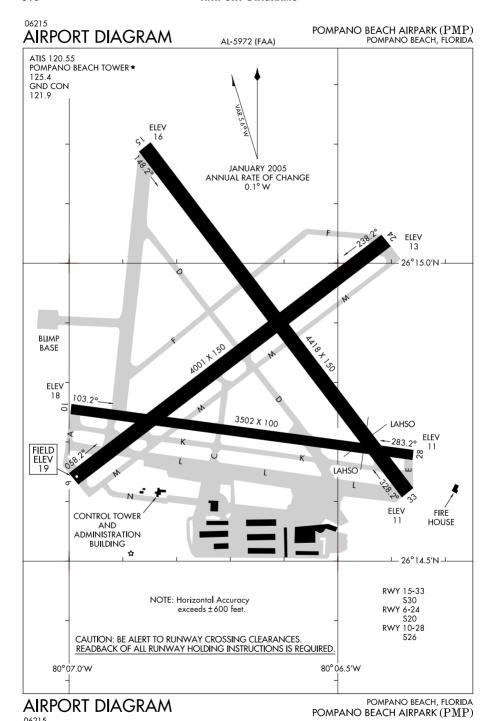


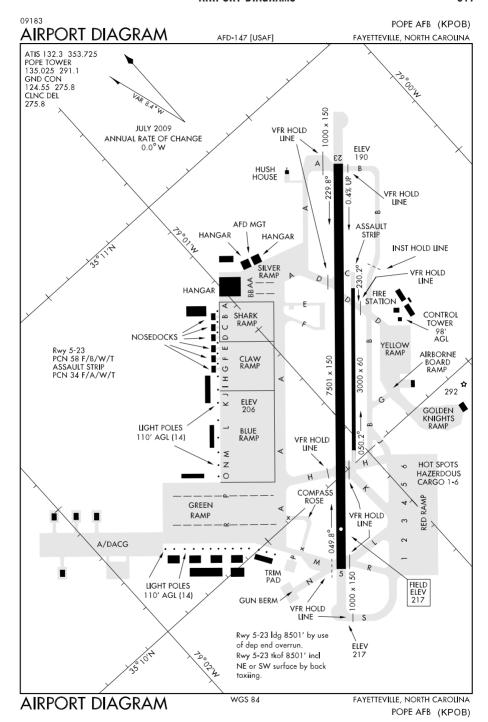


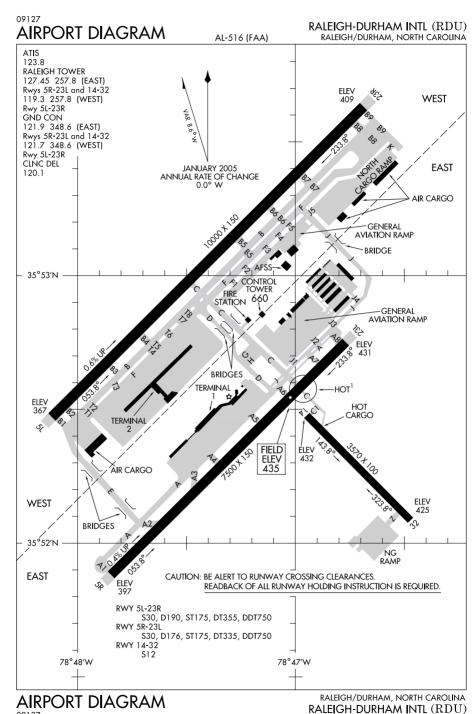
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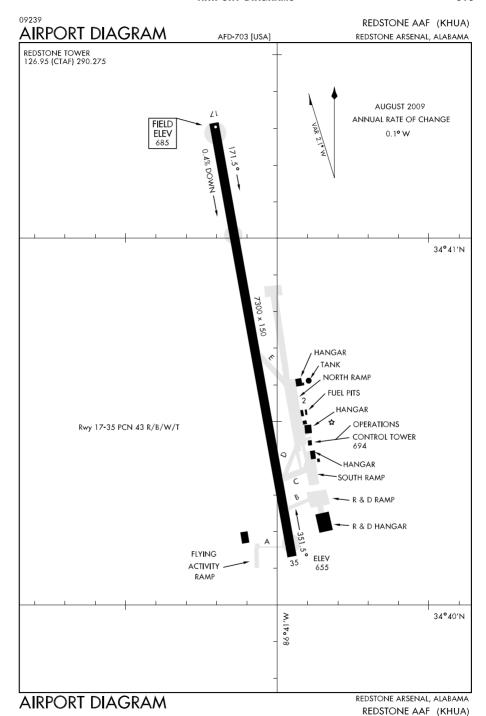


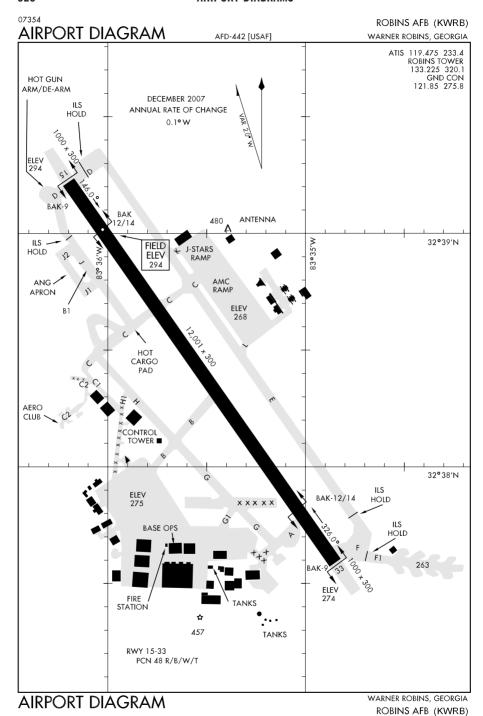
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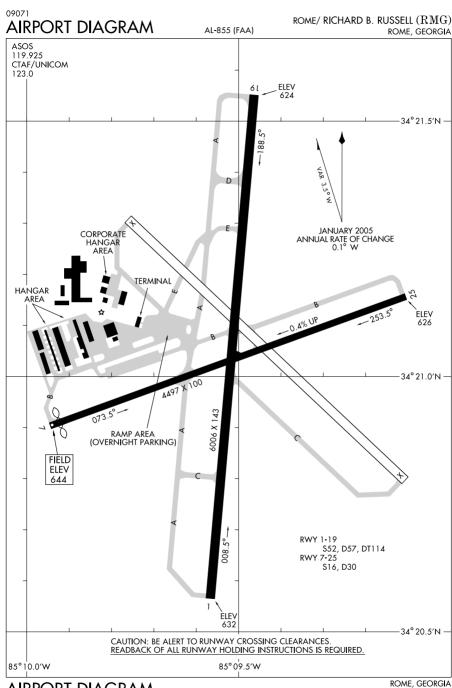




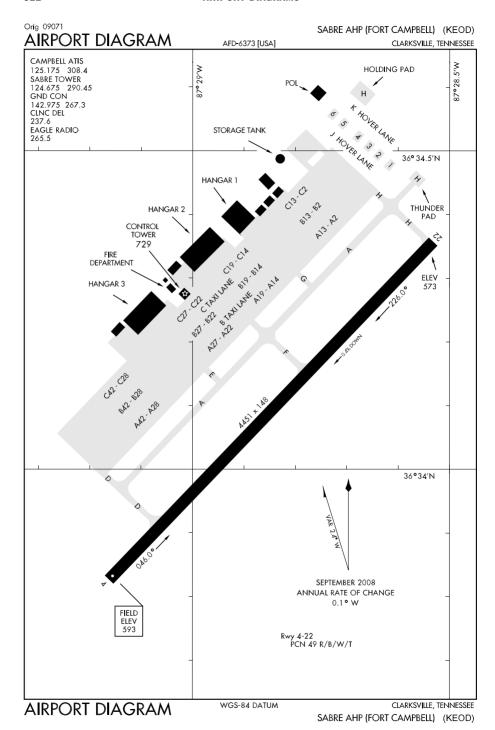




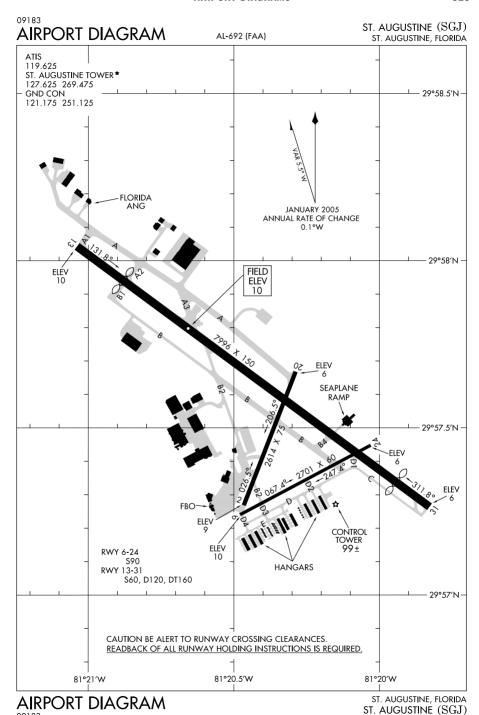


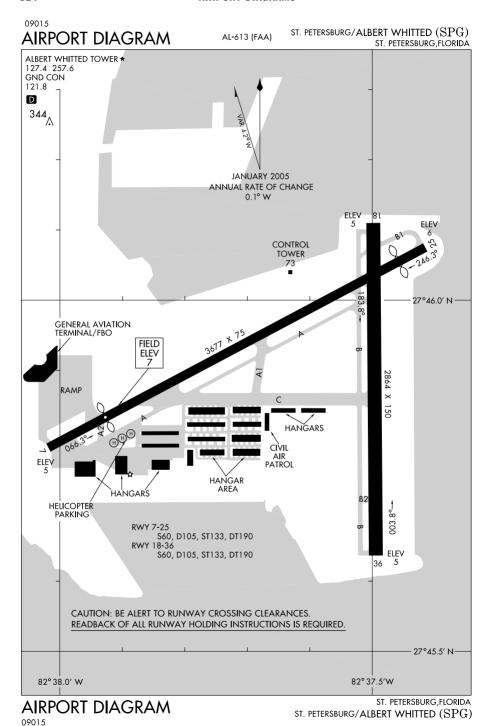


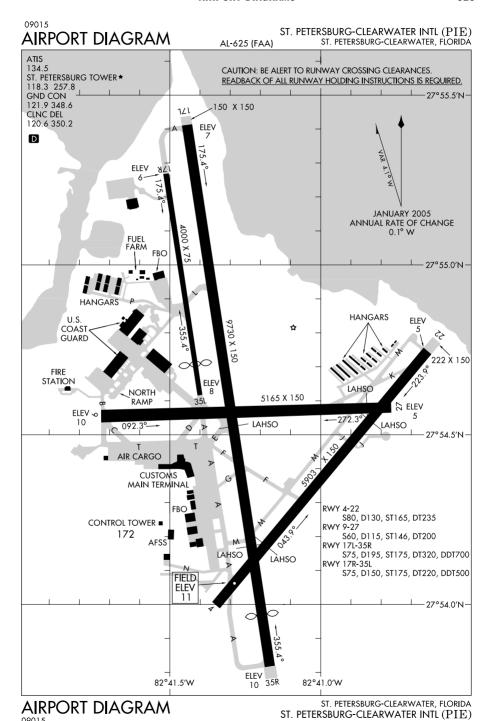
ROME/ RICHARD B. RUSSELL (RMG)

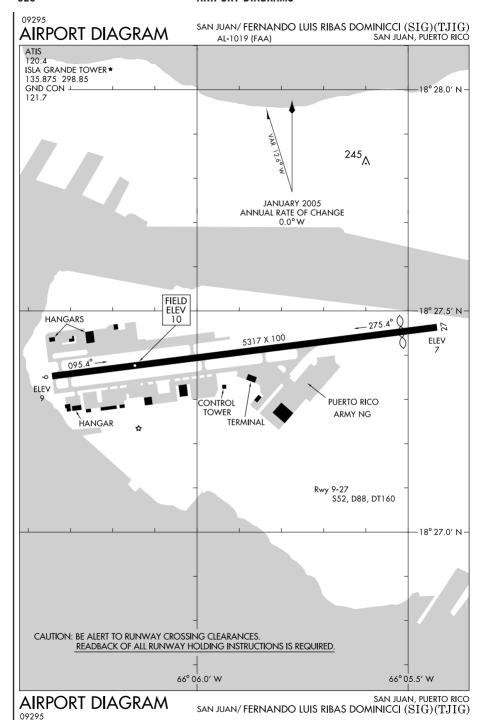


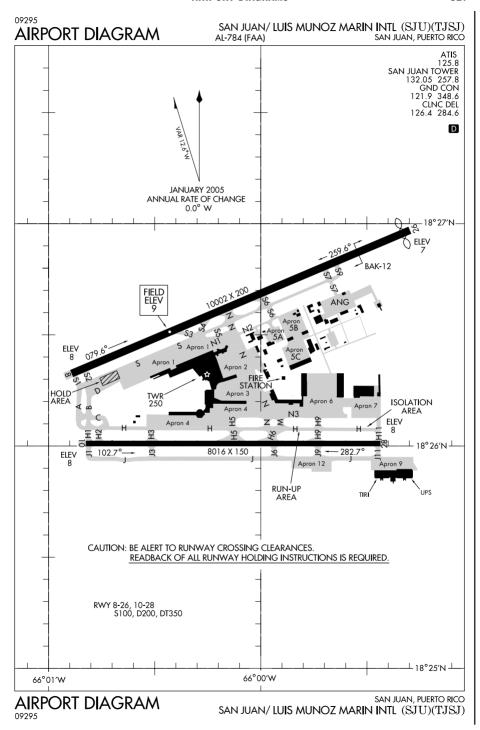
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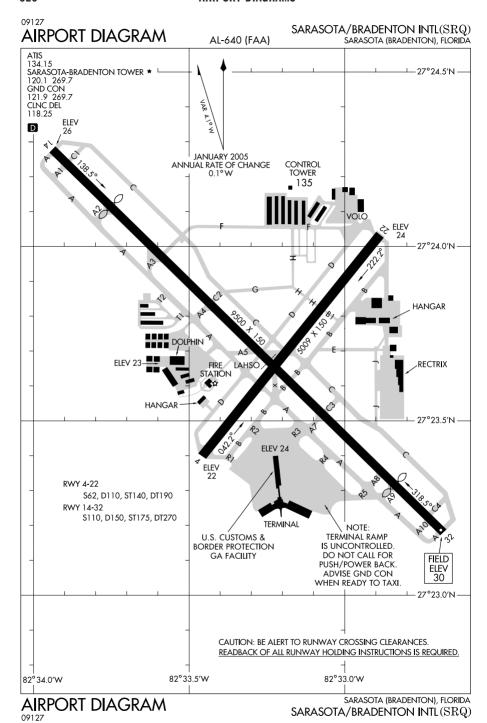


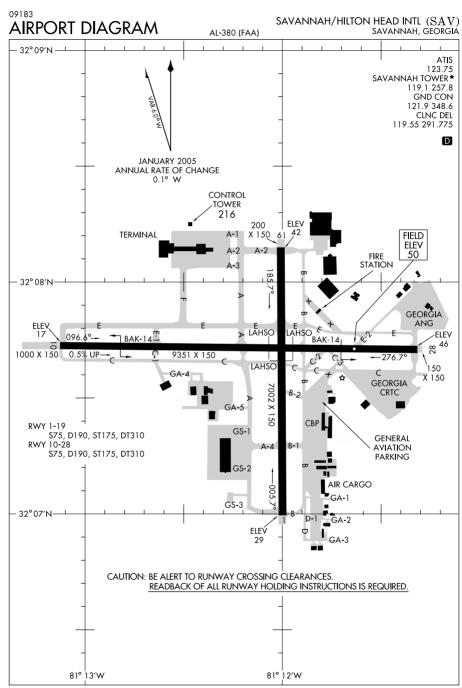




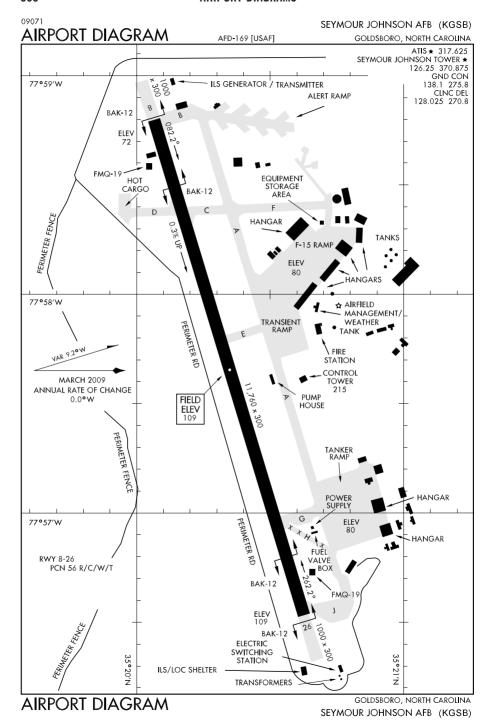


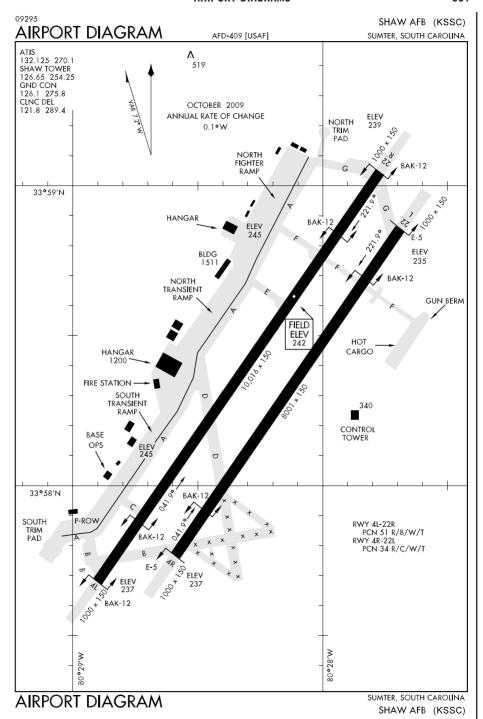
SE, 22 OCT 2009 to 17 DEC 2009

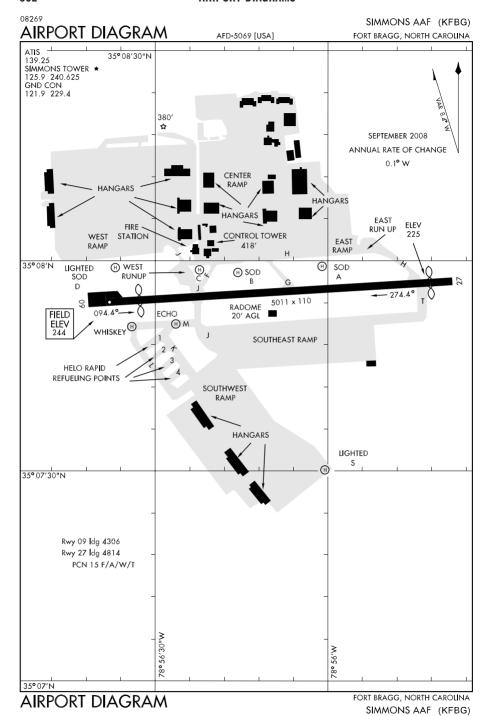


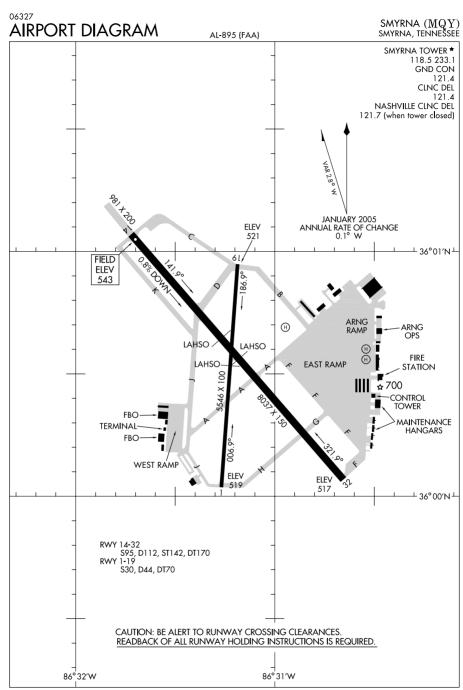


SAVANNAH, GEORGIA SAVANNAH/HILTON HEAD INTL (SAV)

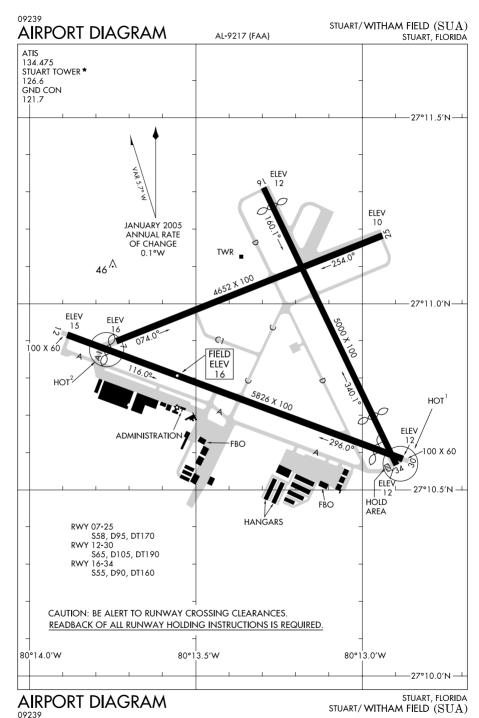


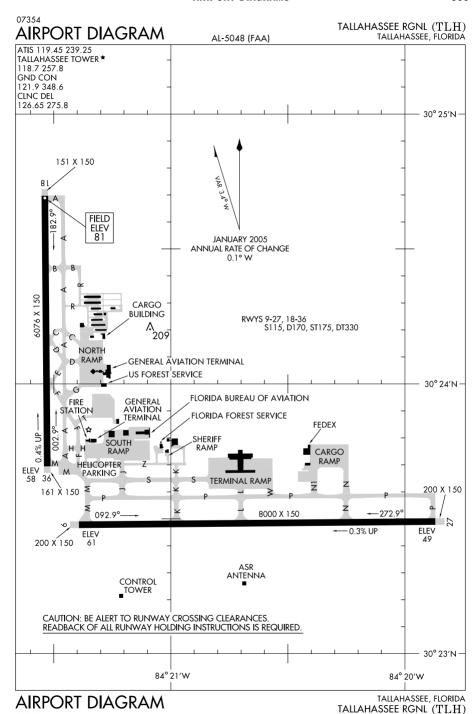




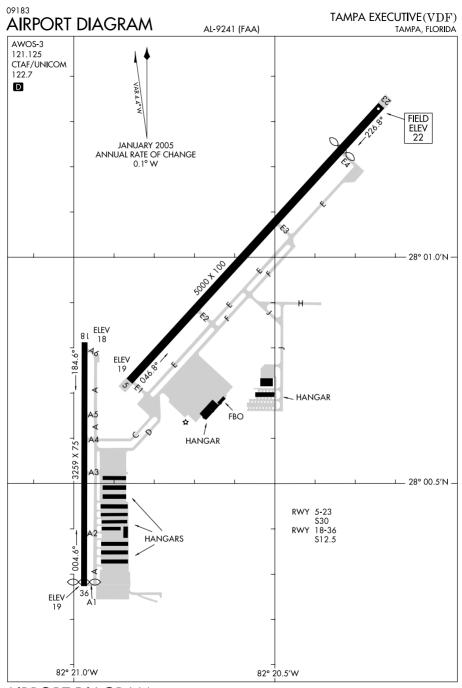


Smyrna, tennessee Smyrna (MQY)

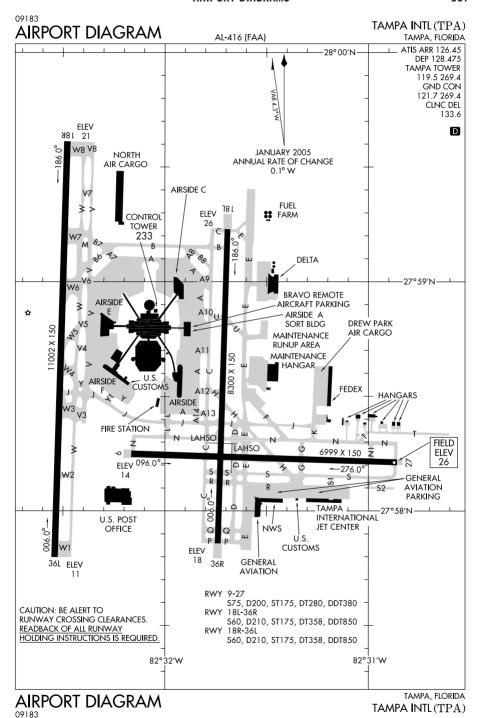


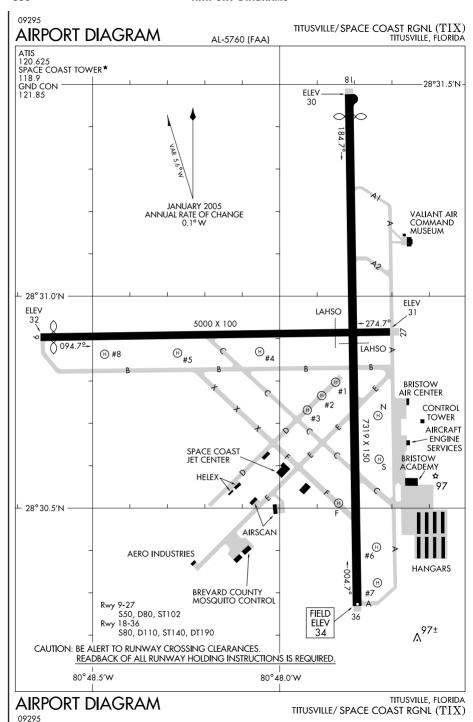


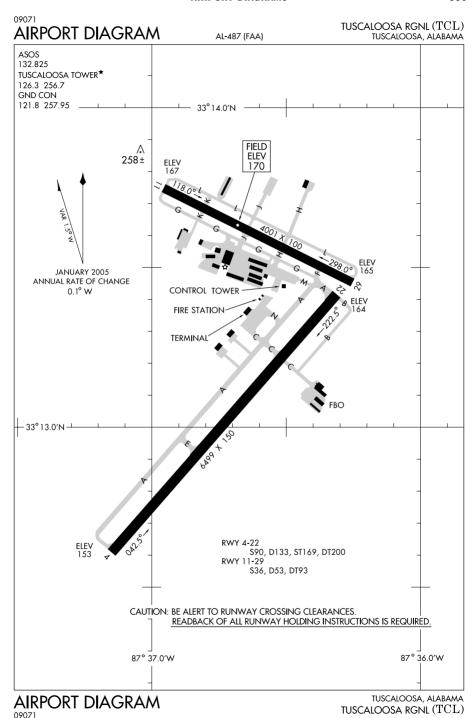
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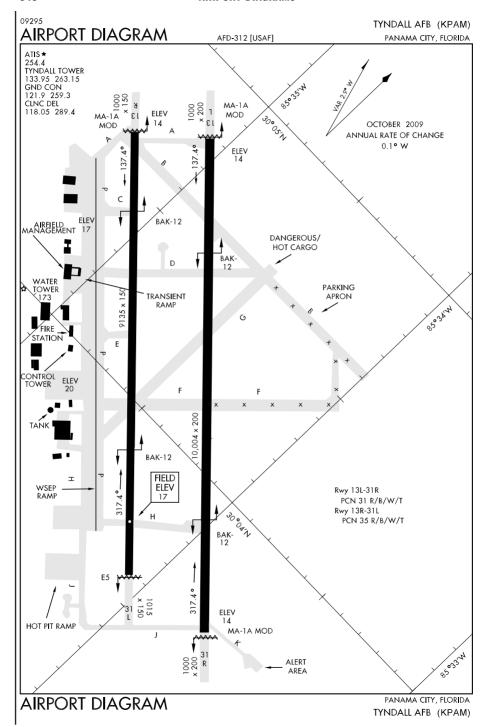


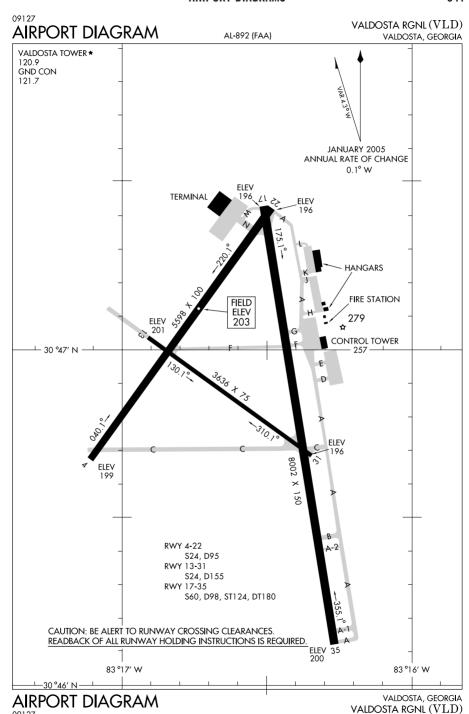
TAMPA EXECUTIVE (VDF) TAMPA, FLORIDA



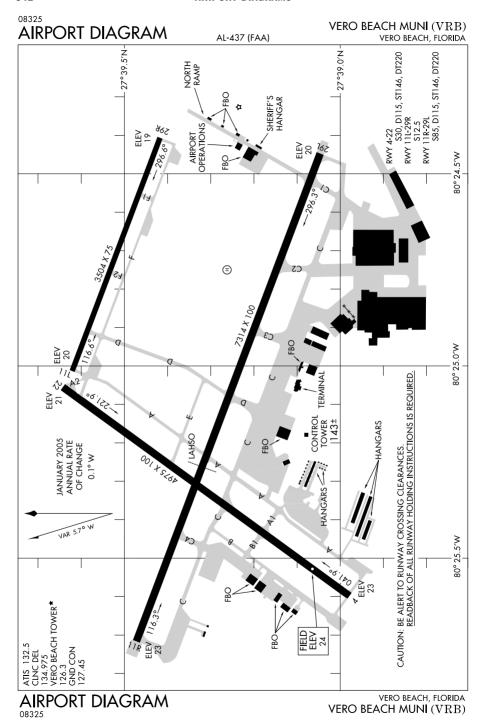


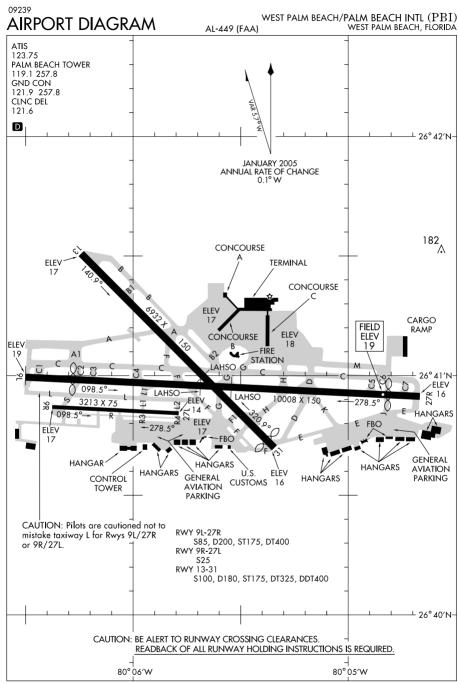




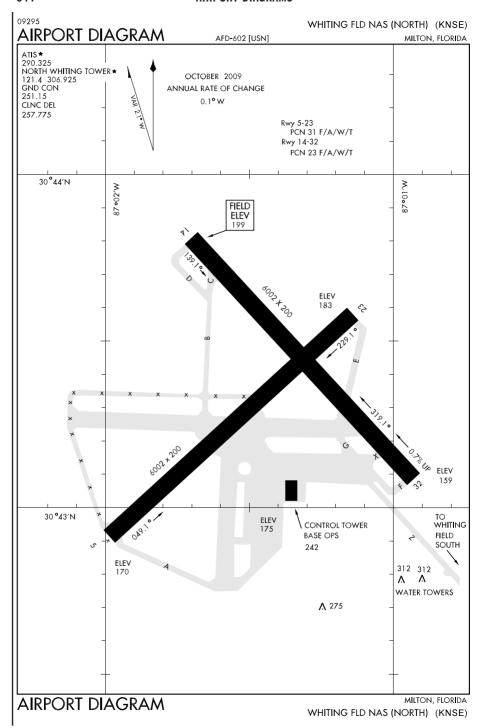


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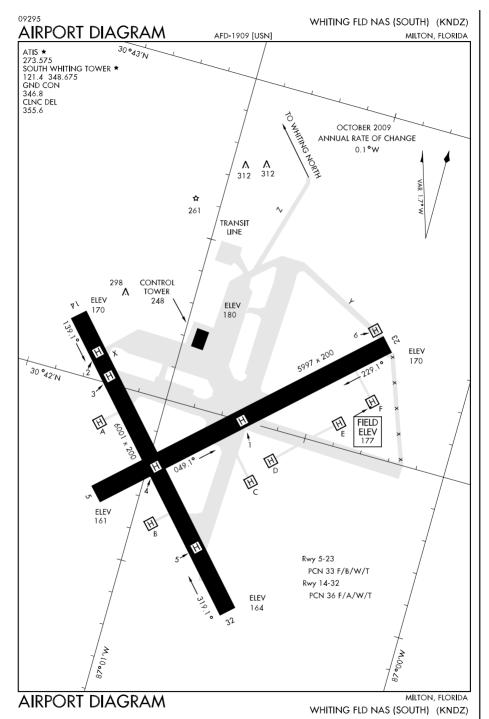


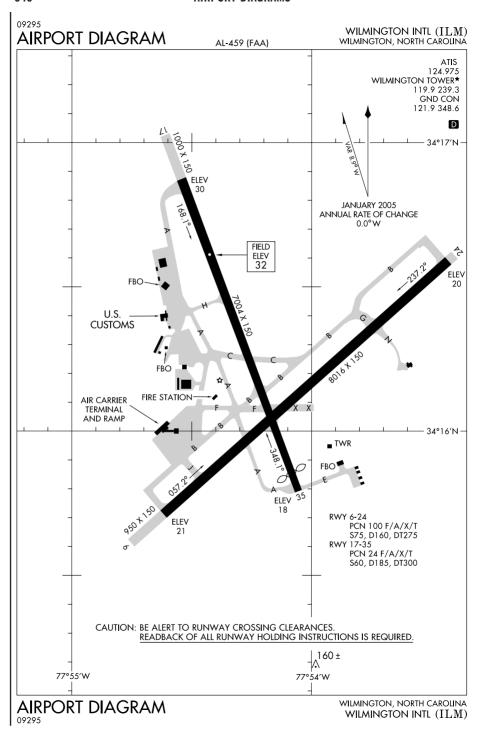


WEST PALM BEACH, FLORIDA WEST PALM BEACH/PALM BEACH INTL (PBI)



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